

## BULLETIN OF THE University of the State of Missouri.

VOL. III.

JANUARY, 1902.

NO. 1.

### BUILDINGS, LIBRARIES, LABORATORIES.

#### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, which is now a beautiful town of 6,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad, and also on the Missouri, Kansas and Texas. The cornerstone of the main building was laid 4 July, 1840, which is generally accepted as *foundation day*. The School of Mines and Metallurgy, a Department of the University, was located at Rolla, Missouri, in 1870.

#### Resources.

The cost of our buildings, grounds, books, and other equipment, is \$1,300,000. The endowment, bearing interest at five or six per cent., is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is \$38,150 a year. Moreover, the Legislature makes appropriations biennially. There is some income from fees for the Libraries and Laboratories. There are 47,107 acres of unsold land. The Supreme Court of Missouri has recently upheld a Collateral Inheritance Tax, the proceeds of which go to the University. The income of the whole University, from all sources and for all Departments, in 1901 and 1902 is about \$420,000 a year.

#### Free Tuition.

It is one of the foremost purposes of this University to place higher education within the reach of all that are intellectually and morally qualified to receive it. Therefore, tuition is *free* in all Departments—Graduate, College, Department of Education, Law, Medicine, College of Agriculture, Engineering, Mines and Metallurgy. In all these Departments except Law, the only charges are a fee of \$5.00 a session, and small laboratory deposits covering the cost of material used by the students. In Law, the charge is a library fee of \$10 a year.

#### Expenses.

The expense for room, board, books and fees varies from \$130 to \$200 a year. For students that board in our club houses these expenses need not exceed \$130. For those that board in private families the expenses mentioned above need not exceed \$200 a year. The fees in some colleges and universities will bear all expenses here.

#### Buildings.

Observatory, Anatomical Laboratory, three Dormitories, Agricultural Farm buildings, Experiment Station, Greenhouse (new), Law building (new), Chemical Laboratory (new), President's house (1867), Museum (new), Agricultural Hall (1871), Engineering (new), Mechanic Arts (new), Powerhouse (new),

Academic Hall (new), Hospital (new). Our School of Mines at Rolla, has four buildings. Within the present year six new buildings will be erected at Columbia and four at Rolla. The new buildings at Columbia, to be erected in 1902, are as follows: 1. a dormitory for women (stone), 2. a laboratory for Botany, Horticulture, and Entomology (stone), 3. a laboratory for Dairy Husbandry (stone), 4. a pavilion for judging live stock (stone), 5. a laboratory for Engineering, and 6. a laboratory for Bacteriology, Pathology, Physiology, and Anatomy. The first two are to be placed on the Horticultural Grounds, the third and fourth on the Agricultural Farm, and the fifth and sixth on the campus. The new buildings at Rolla are: 1. an extension to the Chemical laboratory, 2. a heating plant, 3. a shop, and 4. a main building. The new buildings at Columbia are to cost about \$165,000 and those at Rolla \$87,000, making a total in the whole University of \$252,000.

### **Libraries.**

We have a library for general readers, and a number of department libraries for professors and advanced students. These libraries contain now about 40,000 bound volumes. In the present year \$27,000 will be spent in enlarging our libraries. The collections of the State Historical Society, lodged in one of our buildings, amount to 23,000 volumes. At the end of the year 1902, about 75,000 volumes will be accessible to our students.

### **Laboratories and Museums.**

There are at Columbia museums of Archaeology, Zoology, Geology, and Agriculture, thirty laboratories of science and technology, five rooms for drawing and designing, and five shops. At our School of Mines and Metallurgy at Rolla, there are several laboratories and drawing rooms and a shop. Of the \$252,000 to be expended for new buildings in 1902, \$154,000 will go for laboratory buildings, and nearly \$60,000 more will be spent for their equipment with apparatus. Thus about \$214,000 will be invested this year in better facilities for our laboratory work.

### **Open to Women.**

All Departments are open to women. A suite of rooms in Academic Hall, comfortable, beautifully furnished, and strictly private, is reserved for their special use. These rooms are in the care of a matron, whose only duty is to take motherly care of the young women. Reed Hall, the new dormitory for women, is to be built this year on the Horticultural Grounds.

### **Requirements for Entrance.**

A good high school education, or its equivalent, is demanded for admission to any Department. Applicants must submit evidence of good character. We do not want students that are not intellectually and morally qualified for our work.

### **Religious Influences.**

Almost all denominations are represented at Columbia. Few towns of its size in the West can be compared with it in the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the Young Women's Christian Association. There is a students' prayer meeting every week. Prayers by officers

of the University also are held every morning. Attendance upon religious exercises is voluntary.

### **Enrollment.**

The students of the University come from almost every county in Missouri. Fifty-two States, Territories, and foreign countries were represented during last session by 1481 students. The enrollment for this session (1901-1902) will be close to 1700.

### **Graduate Department.**

Instruction is offered to graduate students in Latin, Greek, Classical Archaeology, English, Germanic Languages, Romance Languages, History, Sociology, Philosophy, Psychology, Pedagogy, Mathematics, Zoology, Botany, Chemistry, Geology, Physics, Physiology, Agriculture, Horticulture, Law, and Engineering (Civil, Electrical, Mechanical, Sanitary, and Hydraulic). There are a number of Fellowships. Elective courses are offered leading to A. M., Ph. D., and graduate degrees in Law and in Engineering.

### **College.**

Instruction is offered in English, Latin, Greek, Classical Archaeology, History of Art, Romance Languages, Germanic Languages, Elocution, Philosophy, Experimental Psychology, History, Economics, Sociology, Mathematics, Physics, Chemistry, Zoology, Botany, Physiology, Geology, and Astronomy. One undergraduate degree is conferred, requiring four years' work, Bachelor of Arts (A. B.). All work in the College is elective.

### **Department of Education.**

Upon the completion of certain courses the student receives a Life Certificate, entitling him to teach without examination in any public school in Missouri. All the advanced work in Education may be counted toward Academic degrees. The University is the only institution in Missouri, where, at the same time, a student may enjoy the range of college studies, get instruction in Pedagogy, and become expert in Shop Work, Mechanical Drawing, Free-hand Drawing, Agriculture, Horticulture, and Household Economics, and Sloyd.

### **Engineering.**

Courses are offered at Columbia leading to degrees in Civil, Electrical, Mechanical, Sanitary, and Hydraulic Engineering. Mining Engineering and Metallurgy are taught at the School of Mines at Rolla. Our facilities for instruction in Engineering have been greatly increased in recent years and will be substantially increased again this year. In 1902, about \$44,000 will be invested at Columbia in buildings, books, and apparatus for Engineering and about \$92,000 at our School of Mines. In addition to this, we shall expend immediately at Columbia \$8,000 for waterworks on the campus, \$5,000 for a refrigerating machine, and \$7,000 for additions to our heating and lighting plant. All these things will be adapted, so far as possible, to experimental as well as to practical use. Thus it is fair to say that in 1902, in the whole University, the sum of \$156,000 will be invested in buildings, books, and instruments for Engineering and things auxiliary thereto.



## **Law.**

A course is offered, three years long, leading to the degree of Bachelor of Laws. Our diploma admits to practice in all the courts of Missouri, both State and Federal. In addition to the Professors of History, Political Economy, Sociology, etc., there are three Professors of Law who devote themselves to teaching, writing, and research. Our students are not taught by men worn out with practice in offices and courts. There are several non-resident lecturers, also. The fee is \$10 a year, but no extra charge is made for any instruction that the student may receive in any other Department. In 1902, \$7,000 will be expended in the purchase of new law books.

## **Medicine.**

The course consists of four years of nine months each—thirty-six months. Our laboratories of Anatomy, Histology, Pathology, Bacteriology, Physiology, Embryology, Neurology, Pharmacology, Chemistry, and Physics are in charge of men that devote themselves to teaching, writing, and research. This is of much benefit to our students. No man can conduct one of these laboratories up to modern demand and practice medicine. Wherever the attempt is made, the laboratory work suffers. The Boone County Infirmary is available for clinics. So also is the Parker Memorial Hospital on our campus. Here sick students receive medical attendance and nursing at moderate charges. In the near future we shall spend \$42,000 in better provision for our medical laboratories and libraries.

## **College of Agriculture.**

The equipment is good for Agriculture, for Horticulture, and for Animal and Dairy Husbandry. Courses in Household Economics are offered. We shall spend \$83,000 this year in making better provision for work in Agriculture, Horticulture, Entomology, and Dairy Husbandry.

## **Mines and Metallurgy.**

Our School of Mines and Metallurgy at Rolla is one of the best institutions of its kind in the Mississippi Valley. It has been growing in buildings, equipment, and attendance. Courses are offered in Mining, in Metallurgy, etc. The special Catalogue of this department will be sent upon application to the Director, "Dr. George E. Ladd, Rolla, Mo." This session about \$92,000 will be spent in various improvements in the School of Mines.

## **Summer Session.**

The Summer Session will begin 2 June, and extend to 23 August. Courses will be given in Biology, Physics, Chemistry, English, French, German, Greek, History, Latin, Mathematics, Sloyd, Agriculture, and Horticulture. If accredited here, the work done is accepted by the State Superintendent of Public Schools. The fee is very small. Special railroad rates. Enrollment last Summer 507.

## **Catalogue.**

If this circular interests you, write for a Catalogue of the whole University or of any Department. It will be sent cheerfully. Address the Registrar, "Mr. Irvin Switzler, Columbia, Missouri."

R. H. JESSE,  
President.

29 January, 1902.



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# BULLETIN OF THE *University of the State of Missouri.*

VOL. III.

FEBRUARY, 1902.

NO. 2.

## GROWTH IN ELEVEN YEARS (1890-1901).

### Historical Statement.

The Legislative Act establishing the public school system was approved 9 February, 1839, and that establishing the University was approved 11 February, 1839. The University was located at Columbia, 24 June, 1839. The cornerstone of the Main Building was laid 4 July, 1840. Courses of instruction in Academic work were begun on 14 April, 1841. A Department of Education was established in 1867, and work began in September, 1868. In 1869 women were admitted first to this Department, in 1870 to the College, and soon after to all Departments. The College of Agriculture and Mechanic Arts and the School of Mines and Metallurgy were made Departments of the University in 1870—the School of Mines being located at Rolla. The Law Department was opened in 1872; the Medical Department in 1873; the Engineering Department in 1877. The Experiment Station was established, under act of Congress, in 1888. The Missouri State Military School was created a Department of the University in 1890. In 1896 the Graduate Department was established. In 1868 the State gave the University aid for the first time—\$10,000 for two years. On 9 January, 1892, the Main Building, an immense structure, containing the library, museum, and other collections, was burned, the Hall of Agriculture and the Observatory being the only buildings for instruction left on the campus at Columbia. We have had to supply anew buildings, books, and laboratory equipment.

### Endowment.

In December, 1890, the endowment consisted of (a) seminary fund, \$540,000, in state certificates at five or six per cent; (b) annual income from U. S. Government, \$29,150; (c) unsold land, 57,256 acres; (d) appropriations by the Legislature. In December, 1901, the endowment consisted of (a) seminary fund, \$1,236,000, in state certificates at five or six per cent; (b) annual income from U. S. Government (Hatch and Morrill acts), \$38,438; (c) income from collateral inheritance tax of five per cent voted in 1898 (about \$120,000 a year); (d) unsold land, 47,108 acres; (e) appropriations by the Legislature. The chance of missing an appropriation by the Legislature is scarcely so great as that of missing interest on the bonds of a corporation.

### Annual Income.

On 31 December, 1890, the annual income from all sources, for all Departments, and for all purposes, amounted to \$122,255. If the income from fees (\$11,250) be deducted, the remainder is the interest at 5 per cent on \$2,220,100, or at 4 per cent on \$2,775,125. On 31 December, 1901, the annual income from all sources, for all Departments, and for all purposes was as follows: (a) interest on seminary fund, \$63,017; (b) from U. S. Government, \$38,138; (c) collateral inheritance tax (up to 1-10 mill), \$120,000; (d) legislative appropriation, \$97,350; (e) fees, rents, etc., \$26,000; (f) accumulations of inheritance tax, \$75,850. The total, \$420,655, represents the income for each of the calendar years 1901 and 1902. The annual income apart from fees (\$14,250) is the interest at five per

cent on \$8,128,100 or at four per cent on \$10,160,125. The fees are small because we aim to make education practically free.

### **Buildings, Books and Equipment.**

In December, 1890, our buildings, books, and equipment were valued at \$360,000. In December, 1901, they were valued at \$1,300,000, not including the campus or the grounds for Horticulture, Botany, and Agriculture.

### **Enrollment of Students.**

On 31 December, 1890, 510 students had been enrolled in that session of whom more than 210 were of preparatory grade. Not so many as 300 could have come in under our present requirements for entrance. They represented 11 states and territories. On 31 December, 1901, the enrollment, including the students of the summer session, was 1,575. The total number in summer and in winter session from June, 1901, to June, 1902, will be close to 1,700. They represent 52 states, territories, and foreign countries. In the next five years the enrollment will go beyond 3,000 probably.

### **Requirements for Entrance.**

In December, 1890, nothing was required for admission to the Departments of Law, Medicine, and Agriculture, and to the School of Mines except a certain age and the training of the elementary schools. In the College proper, the Department of Education, and the School of Engineering there was a preparatory school with a curriculum two years long, on the completion of which the student was admitted to the freshman class. To abolish the preparatory school, to raise the standard of admission to all Departments, and to build up a system of good secondary schools was an early undertaking of the present administration of the University.

### **Approved Schools.**

In December, 1890, 23 secondary schools had been approved. In nearly all of them the course of study was scrappy and only two years long. Few of them had a laboratory or a library. There were not then six secondary schools in Missouri that could have met our present conditions for approval.

In December, 1901, the number of approved schools had grown to 117. According to actual figures, this means a growth from 23 to 117, but according to the present requirements for approval, the increase has been from 6 to 117. As the high schools have advanced their courses from two years to four and have equipped their laboratories and libraries and have increased the number and improved the quality of their teachers their enrollment has grown steadily. In the eleven years the number of pupils in secondary schools in Missouri has been multiplied several times. Eight years ago we appointed an Examiner who spends eight months each year visiting secondary schools and reporting on them. We hope in time through examiners to help build up secondary education in the states south and southwest of Missouri.

### **Summer Session.**

The chief purpose of our summer session is to help teachers to better attainments that they may help forward their pupils. Last summer 507 students were enrolled, nearly all of whom were teachers. Probably each of them this winter has reached with an influence stronger than before at least 40 pupils. Thus, perhaps, 20,000 children have been better taught this winter by reason of our work last summer, and this result will be repeated so long as the teachers last. The summer session is divided into two terms of six weeks each. The faculty is taken from this and from other universities.



## Positions Created.

In the last eleven years the University has created the following positions, most of which have been filled, but some will be filled in time for next fall: Dean of the College proper, Dean of the Graduate Department, Greek (Instructor), Classical Archaeology and History of Art (Professor), English (Assistant Professor), Elocution (Professor), Romance Languages (Professor, Assistant Professor, Instructor), Germanic Languages (Professor, Assistant Professor, Instructor), Mathematics (Instructor), Philosophy (Professor), Experimental Psychology (Professor), Ethics (Professor), History (Professor, Assistant Professor, Instructor), Political Economy (Professor), Sociology (Professor), Physics (Professor, Instructor), Chemistry (Assistant Professor, 2 Instructors), Agricultural Chemistry (Professor), Zoology (Professor, Instructor), Botany (Professor), Entomology (Professor), Agriculture (Professor, Instructor), Household Economics (Instructor), Dairy Husbandry (Professor), Horticulture (Assistant), Veterinary Surgery (Professor), Physical Training (Professor, 2 Instructors), Mechanical Engineering (Professor), Electrical Engineering (Professor), Mining Engineering (Professor), Metallurgy (Professor), Shop Work (Superintendent, 3 Instructors), Drawing (3 Instructors), Physiology (Professor, Instructor), Anatomy (Professor), Pathology and Bacteriology (Professor), Eye and Ear (Professor), Obstetrics and Gynaecology (Professor), House Surgeon to Hospital, Head Nurse and Assistants in Hospital, Examiner of Schools, Registrar, Alumni Recorder, Mechanician, Matron, Head Librarian and staff of Cataloguers, and about twenty Fellows and Student Assistants. In some cases a chair (e. g., Biology, or Modern Languages) has been abolished and two have been created. In other cases two chairs (e. g., Anatomy and Practice of Medicine), formerly filled by one man, have been divided. In some cases the chair (e. g., Pedagogy) had been established but in 1890 had long been vacant. Positions at the School of Mines (e. g., Professor of Physics) have been included.

## Universities Represented.

Among our Professors, Assistant Professors, and Instructors, not including those to be appointed this spring, the following colleges and universities are represented. In many instances the same man has attended two or more universities. Under each institution is given the number of men in our faculty that have attended it as undergraduates or as graduates: Harvard, 15; Yale, 1; Columbia (History and Political Science), 2; Johns Hopkins, 8; Virginia, 5; North Carolina, 1; Georgia, 1; Michigan, 3; Wisconsin, 2; California, 1; Stanford, 2; Indiana, 1; Missouri, 22; Dartmouth, 2; Chicago, 5; Miami, 1; Minnesota, 1; Lake Forest, 2; Cincinnati, 1; Clark, 3; Cornell, 6; Williams, 1; Lehigh, 1; DePauw, 2; Ohio, 1; Trinity (Toronto), 1; McGill, 1; Heidelberg, 3; Ecole des Beaux Arts, 1; Paris, 5; Berlin, 10; Halle, 2; Munich, 2; Classical School at Athens, 2; Classical School at Rome, 1; Strassburg, 1; Leipzig, 2; Goettingen, 2; University of London, 2. That the representation of some famous American universities is not greater is due to the emphasis that some give to research, and to the fact that some are not well conscious of western institutions, and to accident. No local, political, or sectarian test is applied in the employment of teachers here.

## Courses of Study.

Eleven years ago the course of study in Law was two years long—sixteen months. The course in Medicine was of the same length. The course in Law is now three years long, and that in Medicine four years, each session consisting of nine months. In the College the course was four years long, but twenty hours a week in the lecture room were required, and there was



little recognition of laboratory work. The course was nearly a hard and fast curriculum. Now fifteen hours a week are required and the student is prohibited from taking more than sixteen. All the work is elective, but care is taken that the student do not scatter his energies over too many subjects or concentrate them upon too few. Only one Bachelor's degree (A. B.) is given.

In the School of Mines in 1890 a little Metallurgy was taught in connection with Chemistry, but there was no attempt to teach Mining Engineering and there was no separate laboratory of Metallurgy. The course of study has been extended from three years to four, a chair of Mining Engineering has been established, and another of Metallurgy, a shop has been erected, and other improvements have been made too numerous to mention.

	31 Dec., 1890.	31 Dec., 1901.
<b>Statistical Summary.</b>		
Seminary fund (endowment).....	\$540,000	\$1,236,000
From U. S. Government (yearly) ..	\$29,150	\$38,438
Annual income (for all purposes)...	\$122,253	\$420,000
Income, less fees, capitalized at 5% ..	\$2,220,100	\$8,128,109
Buildings, books, and equipment .....	\$360,000	\$1,300,000
Acres of unsold land .....	57,256	47,108
Students enrolled (actual numbers).....	510	1,575
Students enrolled (under present entrance requirements).....	300	1,575
Professors, Assistant Professors, and Instructors.....	38	86
Approved secondary schools (actual numbers) .....	23	117
Approved secondary schools (under present requirements).....	6	117
Enrollment in Summer Session.....	0	507

	31 Dec., 1890.	31 Dec., 1901.
<b>Requirements for Entrance</b>		
College†.....	Elementary school course	High school diploma
Law Department.....	Elementary school course	High school diploma
Engineering†.....	Elementary school course	High school diploma
Medicine.....	Elementary school course	High school diploma
Department of Education†.....	Elementary school course	High school diploma
School of Mines.....	Elementary school course	High school diploma
College of Agriculture.....	Elementary school course	*High school diploma
Graduate Department.....	(not then created)	Bachelor's degree.
†In Preparatory Department. *For the fall of 1902.		

**Missouri.** Missouri contains 69,415 square miles—nearly 3,000 more than New England. The population is 3,106,665. The assessed valuation of property (about one-third of the real value) is \$1,200,000,000. While the development of its resources has scarcely begun, it is the fifth state in the Union in population and also in wealth and the seventh in manufactures. For agriculture and for mining it is justly famous. The large area, population, and wealth of the state and its imperfect development give great opportunity to the University. Its geographical position and political history make Missouri at once a Western, a Northern, and a Southern state. This also is of advantage educationally.

**Conclusion.** While the opportunities have been great, the obstacles have been formidable. Situated in a small town reached only by branch railroads, crippled at first by a preparatory department and the lack of secondary schools, burned in 1892, and hindered constantly by many things which impede progress, the University has had to compete in its own state with thirteen schools of medicine, three of law, one of engineering, and with many colleges. What has been achieved justifies hope. We seem to have reached ground from which in the next eleven years the University may make great progress. May He who has shielded it in many a time of peril guide it into the highest usefulness to men!

22 February, 1902.

R. H. JESSE.

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## BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. III.

APRIL, 1902.

NO. 4.

### DEPARTMENT OF LAW.

#### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, which is now a beautiful city of 6,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad and also on the Missouri, Kansas, and Texas, and the cornerstone of the main building was laid 4 July, 1840, which is generally accepted as foundation day. The School of Mines and Metallurgy, a Department of the University, was located at Rolla, Missouri.

#### Resources.

Our buildings, grounds, books, and other equipment, are valued at more than \$1,300,000, not including the campus or the grounds for Botany, Horticulture, and Agriculture. The endowment, bearing interest at 5 or 6 per cent is \$1,230,000. The income from the United States Government (Hatch and Morrill Acts) is about \$38,138 a year. Moreover, the Legislature makes appropriations biennially. There is some income from fees for the libraries and laboratories. There are 47,000 acres of unsold land. The Supreme Court of Missouri has upheld a Collateral Inheritance Tax giving us about \$120,000 a year. The income of the whole University, from all sources and for all departments, in each of the calendar years 1901 and 1902 is about \$420,000.

#### Tuition Free.

It is one of the foremost purposes of this University to place higher education within the reach of all who are intellectually and morally qualified to receive it. Therefore, tuition is free in all Departments—Graduate, Academic, Department of Education, Medicine, College of Agriculture, Engineering, Mines and Metallurgy. In these Departments the only charges are a library fee of \$5.00 a session and small laboratory deposits covering the cost of materials used by the students. In the Department of Law the charge is a fee of \$10 a year for the benefit of its library.

**Expenses.**

The expenses for room, board, books, and fees vary from \$130 to \$200 a year. For law students who board in our club houses these expenses need not exceed \$130. For those who get the best board in private families the expenses mentioned above need not exceed \$200 a year. The fees in some colleges and universities will bear all expenses here.

**Buildings.**

Observatory, Anatomical Laboratory, three Dormitories, Agricultural Farm buildings, Experiment Station, Greenhouse, Law building, Chemical Laboratory, President's house, Museum, Agricultural Hall, Engineering, Mechanic Arts, Powerhouse, Academic Hall, Hospital. Our School of Mines at Rolla has four buildings. Within the present year six new buildings will be erected at Columbia and four at Rolla.

**Libraries.**

We have a large library for general readers, and a number of department libraries for professors and advanced students. These libraries contain about 48,000 bound volumes. The law library contains 7,000 volumes. In the present year \$7,000 will be spent in enlarging it, and \$20,000 in enlarging other libraries. Besides the libraries of the University, the collections of the State Historical Society, which contain 23,000 volumes, are accessible to our students.

**Open to Women.**

All Departments are open to women. A suite of rooms, in Academic Hall, comfortable, beautifully furnished, and strictly private, is reserved for their special use. These rooms are presided over by a Matron.

**Requirements  
for Entrance.**

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**Religious  
Influences.**

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**Athletic Sports.** Our students have an association for boating and teams for foot ball, base ball, basket ball, track athletics, and lawn tennis. There is a good gymnasium for men and another for women. The athletic field and the golf links are excellent.

**Debating Clubs.** Our students are interested in debating. Much success has attended our contestants in inter-collegiate and inter-university debates.

**Opportunities in Missouri.** Missouri contains 69,415 square miles—nearly 3,000 more than New England. The population is 3,106,665. The assessed valuation of property (about one-third of the real value) is \$1,200,000,000. While the development of its resources has scarcely begun, it is the fifth state in the Union in population and also in wealth, and the seventh in manufactures. For agriculture and for mining it is justly famous. It is a land of opportunity for enterprising young men. The best introduction to any state is through its university. Our students represent nearly every county in Missouri.

**Courses of Study in Law.** The undergraduate course of study leading to the degree of Bachelor of Laws has been extended to three school years, commencing with all students entering on or after September, 1901. The classes of this course will be known as *first*, *second*, and *third*, respectively. The studies embrace the general subjects of substantive law and remedial procedure, as prevailing in the United States, and as administered by the state and federal courts.

**Requirements for Admission to First Class.** No examination in law is required for admission to the *first* class provided application is made at the beginning of the year. If application for admission is made after work has been in progress the candidate must submit to examination on the subjects accomplished by the class at the date of his entry. If he should fail on one or two subjects only, a further examination may (in exceptional cases) be accorded him, and he may be admitted upon condition that the work be made up at such time as may be appointed.

**Requirements for Admission to Second Class.** No one will be admitted to the *second* class unless he applies at the beginning of the year, and is qualified in the work of the first year. If he should fail on one or two subjects of the first year he may be admitted in exceptional cases, upon condition that he make up his deficiency at such time as may be appointed. Applicants may be admitted to the *second* class upon certificates from approved

law schools showing that they have accomplished the work of the first year or its equivalent. Certificates of admission to the bar will not be accepted.

**Third Class.** No one is admitted to the *third* class except applicants who have accomplished the work of the second year as resident members of the second class in this University, and who apply at the beginning of the year. Members of the *third* class accomplishing the studies of the third year receive the degree of Bachelor of Laws. This degree admits the holder of it to the bar of the state of Missouri, on motion, without examination.

**Graduate Course.** A course of one year is maintained for graduates, who wish to continue their work for that period of time. All graduates accomplishing it receive the degree of Master of Laws.

**Special Class.** For admission to instruction as *special* students, the same moral qualifications are required which are prescribed for admission to the other classes, but if the applicant is twenty-one years of age, the qualification of high school attainments will not be required for his admission as a special student. Such *special* students will not be considered as candidates for graduation.

**Enrollment.** The enrollment in the Department of Law during the current year is 143 students. In the whole University nearly 1,700 have been enrolled.

**Academic Facilities.** The connection of the Law Department with the University enables the law student, without additional charge, to take instruction in other Departments, provided it do not interfere with his legal studies. Some members of every class have found it convenient to pursue such studies as Latin, French, Logic, English, Political Economy, History, Stenography, Elocution, etc.

**Instruction.** The instruction is conducted by a corps of resident professors who devote their whole time to teaching, research, and writing. Non-resident lecturers give occasional instruction on various subjects in the course. Each session opens on the second Tuesday of September and closes on the first Wednesday in June.

**Catalogue.** If this circular interests you, write for a catalogue of the University or of any department. Address the Registrar "Mr. Irvin Switzler, Columbia, Mo."

7 April, 1902.

ALEXANDER MARTIN, Dean.

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BULLETIN OF THE  
UNIVERSITY OF MISSOURI.

VOL. III.

JULY, 1902.

NO. 7.

CIRCULAR OF INFORMATION.

**Historical  
Statement.**

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, which is now a beautiful town of 6,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad, and also on the Missouri, Kansas, and Texas. The cornerstone of the main building was laid 4 July, 1840, which is generally accepted as *foundation day*. The School of Mines and Metallurgy, a Department of the University, was located at Rolla, Missouri, in 1870.

**Resources.**

The cost of our buildings, books, and other equipment, is \$1,300,000. The endowment, bearing interest at five or six per cent., is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is \$38,150 a year. Moreover, the Legislature makes appropriations biennially. There is some income from fees for the libraries and laboratories. There are 47,107 acres of unsold land. The Supreme Court of Missouri has upheld a Collateral Inheritance Tax, the proceeds of which go to the University. The income of the whole University, from all sources and for all Departments, in 1901 and 1902, is about \$420,000 a year.

**Free Tuition.**

It is one of the foremost purposes of this University to place higher education in the reach of all that are intellectually and morally qualified to receive it. Therefore, tuition is *free* in all Departments—Graduate, College, Department of Education, Law, Medicine, College of Agriculture, Engineering, Mines and Metallurgy. In all these Departments, except Law, the only charges are a fee of \$5.00 a session, and small laboratory deposits covering the cost of materials used. In Law, the charge is a library fee of \$10 a year.

**Expenses.**

The expense for room, board, books, and fees varies from \$130 to \$200 a year. For students that board in our club houses these expenses need not exceed \$130, nor need they exceed \$200 a year for those that board in private families. The fees in some colleges and universities will bear all expenses here.

**Buildings.**

Observatory, Anatomical Laboratory, three Dormitories, Agricultural Farm buildings, Greenhouse, Law building, Chemical Laboratory, President's house, Museum, Agricultural Hall, Engineering, Mechanic Arts, Powerhouse, Academic Hall, Hospital (new), Dairy Laboratory (new), Live



Stock Laboratory (new), Laboratory for Horticulture, Entomology, and Botany (new), Engineering Laboratory (new), Medical Laboratory (new). Our School of Mines at Rolla has seven buildings. Within the present year new buildings (included in the list above) will be completed at Columbia and Rolla at a cost of \$252,000.

### **Libraries.**

We have a library for general readers and a number of department libraries for advanced students. These libraries contain now about 50,000 bound volumes. In the present year \$28,000 will be spent in enlarging our libraries. The collections of the State Historical Society, lodged in one of our buildings, amount to 23,000 volumes. At the end of the year 1902, about 75,000 volumes will be accessible to our students.

### **Laboratories and Museums.**

There are at Columbia museums of Archaeology, Art, Zoology, Geology, and Agriculture, many laboratories of science and technology, five rooms for drawing and designing, and several shops. At our School of Mines and Metallurgy, there are several laboratories and drawing rooms and shops. Of the \$252,000 to be expended for new buildings in 1902, \$154,000 will go for laboratory buildings. Nearly \$60,000 more will be spent for their equipment with apparatus. Thus about \$214,000 will be invested this year in better facilities for our laboratory work.

### **Open to Women.**

All Departments are open to women. A suite of rooms in Academic Hall, comfortable, beautifully furnished, and strictly private, is reserved for their special use. These rooms are in the care of a matron, whose only duty is to take motherly care of the young women. Read Hall, the new dormitory for women, is to be built this summer on the Horticultural Grounds.

### **Requirements for Entrance.**

A good high school education, or its equivalent, and evidence of good character are demanded for admission to any department. We do not want students that are not intellectually and morally qualified.

### **Religious Influences.**

Almost all denominations are represented at Columbia. Few towns of its size in the West can be compared with it in the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the Young Women's Christian Association. There is a students' prayer meeting every week. Prayers by officers of the University also are held every morning. Attendance upon religious exercises is voluntary.

### **Debates and Athletic Sports.**

Our students have teams for foot ball, base ball, basket ball, track athletics, and lawn tennis. There is a good gymnasium for men and another for women. The athletic field and the golf links are excellent. Our students are interested in debating. Much success has attended our contestants in inter-collegiate and inter-university debates.

## **Enrollment.**

The students of the University come from almost every county in Missouri. Fifty states, territories, and foreign countries were represented here during the session of 1901-1902 by 1671 students.

## **Graduate Department.**

To graduate students instruction is offered in Latin, Greek, Classical Archæology, English, Germanic Languages, Romance Languages, History, Sociology, Economics, Political Science, Philosophy, Experimental Psychology, Pedagogy, Mathematics, Zoology, Botany, Chemistry, Geology, Physics, Physiology, Agriculture, Horticulture, Law, and Engineering (Civil, Electrical, Mechanical, Sanitary, Chemical, Hydraulic, and Mining). There are a number of Fellowships. Elective courses are offered leading to A. M., Ph. D., and to graduate degrees in Law and in Engineering.

## **College.**

Instruction is offered in English, Latin, Greek, Classical Archæology, History of Art, Romance Languages, Germanic Languages, Elocution, Philosophy, Experimental Psychology, History, Economics, Political Science, Sociology, Pedagogy, Mathematics, Physics, Chemistry, Zoology, Botany, Physiology, Geology, and Astronomy. One undergraduate degree is conferred, requiring four years' work, Bachelor of Arts (A. B.). All work in the College is elective.

## **Department of Education.**

Upon the completion of certain courses the student receives a Life Certificate, entitling him to teach without examination in any public school in Missouri. All the advanced work in Education may be counted toward Academic degrees. The University is the only institution in Missouri, where, at the same time, a student may enjoy the range of college studies, get instruction in Pedagogy, and become expert in Shop Work, Sloyd, Mechanical Drawing, Free-hand Drawing, Agriculture, Horticulture, and Household Economics.

## **Engineering.**

Courses are offered at Columbia leading to degrees in Civil, Electrical, Mechanical, Sanitary, Chemical, and Hydraulic Engineering. Mining Engineering and Metallurgy are taught at the School of Mines at Rolla. Our facilities for instruction in Engineering have been greatly increased in recent years, and in 1902 about \$44,000 more will be invested at Columbia in buildings, books, and apparatus for Engineering and about \$92,000 at our School of Mines. In addition to this, we shall expend immediately at Columbia \$8,000 for waterworks on the campus, \$5,000 for a refrigerating machine, and \$7,000 for additions to our heating and lighting plant. All these things will be adapted, so far as possible, to experimental as well as to practical use. Thus it is fair to say that in 1902, in the whole University, the sum of \$156,000 will be invested in buildings, books, and instruments for Engineering and things auxiliary thereto.

## **Law.**

The course is three years long, leading to the degree of Bachelor of Laws. Our diploma admits to practice in all the courts of Missouri, both State and Federal. In addition to the Professors of History, Economics, Political

Science, Sociology, etc., there are three Professors of Law who devote themselves to teaching, writing, and research. Our students are not taught by men wearied with practice in offices and courts. There are several non-resident lecturers also. The fee is \$10 a year, but no extra charge is made for any instruction that the student may receive in any other Department. In 1902, \$7,000 will be expended in the purchase of law books.

## Medicine.

The course consists of four years of nine months each—thirty-six months. Our laboratories of Anatomy, Histology, Pathology, Bacteriology, Physiology, Embryology, Neurology, Pharmacology, Chemistry, and Physics are in charge of men that devote themselves to teaching, writing, and research. No man can conduct one of these laboratories up to modern demand and practice medicine. Wherever the attempt is made, the laboratory work suffers. A large building for our medical laboratories will be completed this summer. The Boone County Infirmary is available for clinics. The Parker Memorial Hospital is on our campus. Here the sick receive medical attendance and nursing at moderate charges. In 1901-1902 we have spent \$42,000 in better provision for our medical laboratories and libraries. Dr. Guy L. Noyes has been appointed Professor of Eye and Ear Diseases and Dr. ————— Professor of Obstetrics and Gynecology.

## College of Agriculture.

The equipment is good for Agriculture, for Horticulture, and for Animal and Dairy Husbandry. Courses in Household Economics are offered. We shall spend \$85,000 this year in making better provision for Agriculture, Horticulture, Entomology, and Dairy Husbandry.

## Mines and Metallurgy.

Our School of Mines and Metallurgy at Rolla is one of the best in the Mississippi Valley. It has been growing in buildings, equipment, and attendance. Courses are offered in Mining, in Metallurgy, etc. The special catalogue of this Department will be sent upon application to the Director, "Dr. George E. Ladd, Rolla, Mo." This session about \$92,000 have been spent in various improvements at the School of Mines.

## Summer Session.

The Summer Session began 1 June, and will extend to 30 August. Courses are given in Biology, Physics, Chemistry, English, French, German, Greek, History, Freehand Drawing, Mechanical Drawing, Latin, Mathematics, Sloyd, Agriculture, and Horticulture. If accredited here, the work is accepted by the State Superintendent of Public Schools. The fee is \$5. Special railroad rates. Enrollment last summer 507.

## Catalogue.

If this circular interests you, write for a catalogue of the whole University or of any Department. Address the Registrar, "Mr. Irvin Switzler, Columbia, Missouri."

R. H. JESSE,  
President.

1 July, 1902.



McGraw-Hill  
SERIES  
FOR THE  
LIBRARY OF THE  
UNIVERSITY OF  
MISSOURI

## BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. III.

AUGUST, 1902.

NO. 8.

### SCHOOL OF ENGINEERING.

#### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, which is now a beautiful city of 6,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash, and Missouri, Kansas and Texas Railroads. The cornerstone of the main building was laid 4 July, 1840, which is generally accepted as foundation day. The School of Mines and Metallurgy, a Department of the University, was located at Rolla, Missouri.

#### Resources.

The buildings, grounds, books, and other equipment of the University, are valued at \$1,300,000, not including the campus or grounds for Agriculture, Horticulture and Botany. The endowment, bearing interest at five or six per cent, is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is \$38,150 a year. The Legislature makes appropriations biennially. There are 47,000 acres of unsold land. The Supreme Court of Missouri has upheld a Collateral Inheritance Tax giving us about \$120,000 a year. The income of the whole University, from all sources and for all Departments, in each of the calendar years 1901 and 1902, is about \$420,000.

#### Tuition Free.

It is one of the foremost purposes of this University to place higher education within the reach of all who are intellectually and morally qualified to receive it. Therefore, tuition is free in all Departments—Graduate, Engineering, Academic, Department of Education, Medicine, College of Agriculture, Mines and Metallurgy. In these Departments the only charges are a library fee of \$5 a year and small laboratory deposits covering the cost of materials used by the students.

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Published by the University of Missouri. Issued monthly. Application has been made for entry of this publication as second-class matter.

### **Expenses.**

The expenses for room, board, books, and fees vary from \$130 to \$200 a year. For Engineering students who board in our club houses these expenses need not exceed \$130. For those who get the best board in private families the expenses mentioned above need not exceed \$200 a year. The fees in some colleges and universities will bear all expenses here.

### **Buildings.**

Engineering, Mechanic Arts, Power Plant, Observatory, Academic Hall, Chemical Laboratory, Biology and Geology, Agricultural Hall, Hospital, Law, Medical, Dairy, Stock Judging, Veterinary, Horticulture. Two Dormitories for Men, one Dormitory for Women. The School of Mines at Rolla has seven buildings.

A new Engineering Laboratory will be ready for occupancy at the opening of the University in September. It is a two-story brick structure connected with the present Engineering Building, and will furnish approximately the same floor space. The first floor is for the heavy machinery of the hydraulic, dynamo and steam engineering laboratories. The second floor contains laboratories for cement, electrical and mechanical testing, standardizing, gas analysis, etc.

### **Libraries.**

There is a General Library, accessible to all students, and four special Engineering Libraries, containing the best technical books and magazines of America and Europe, for the use of Engineering students. The General and Departmental Libraries contain about 50,000 volumes. Photographs, blueprints, and lantern slides of engineering structures are available. In the present year \$28,000 will be spent in enlarging the libraries.

### **Laboratories and Shops.**

The Engineering Laboratories, together with the extensive power, heating, lighting, ventilating, pumping, and refrigerating plants of the University contain representative equipment of modern Engineering practice in Civil, Electrical, Mechanical, Hydraulic, Sanitary, and Steam Engineering. The Shops, of modern construction, contain equipment covering the entire range of wood and metal work. The general and departmental draughting rooms are equipped with the apparatus necessary for first-class draughting work. The new Engineering Laboratory is being equipped throughout with new machinery and apparatus at a cost of \$23,000.

### **Courses and Degrees.**

All the field, class room, draughting room, and laboratory work is done under the direct supervision of the heads of the various Engineering departments, who have had practical experience in their special lines. Instruction is given by lectures and

recitations, supplemented by field, draughting, and laboratory work, as follows:

**In Civil Engineering.** Attention is given to the study of Surveying, Railroad Engineering, Geodesy, Bridge Building, Municipal Engineering, Highways, Masonry and Foundations, and Hydraulics.

**In Electrical Engineering.** The course prepares young men for electrical designing, manufacturing and contracting, and for the complete installation of power and lighting plants. Especial attention is paid to alternating currents, the design and construction of electrical machinery, and long distance electrical transmission of power.

**In Mechanical Engineering.** Stress is laid upon the theory of prime movers; the theory, design, and construction of machines, engines, and boilers; the installation and economical running of power; heating, and ventilating plants; the theory and strength of cast iron and riveted construction.

**In Sanitary Engineering.** The course covers modern methods of constructing buildings, ventilation, lighting, heating, plumbing, sewage and garbage disposal, water supply, and Municipal Engineering in general.

**Chemical Engineering.** In view of the large development in Chemical Engineering, a course is offered which is intended to provide instruction in Engineering together with specialization in Chemistry, to supply the demand for trained engineers in industrial works of this character.

**Degrees.** These courses are four years each and lead to the Degrees of Bachelor of Science in Civil Engineering, in Electrical Engineering, in Mechanical Engineering, in Sanitary Engineering, and in Chemical Engineering. Graduate courses are offered leading to the Degrees of Civil Engineer, Electrical Engineer, Mechanical Engineer, and Hydraulic Engineer.

**Requirements for Admission.** The following are the requirements for admission to the Freshman Class:

1. English, three years work.
2. Mathematics—Algebra, and Plane Geometry, three years work.
3. Six units to be selected from the following list of subjects: Solid Geometry and Plane Trigonometry, History, Latin, Greek, Ger-



man, French, Spanish, Physics, Chemistry, Biology, Zoology, Botany, Physiography, Physiology, Drawing, Shop. The minimum allowed in any one of these subjects is one unit. The maximum varies from one to four units. A unit is equivalent to one year's work in a good High School.

**Other Departments.** Graduate Department, College, Department of Education, School of Agriculture, School of Mechanic Arts, Law Department, Medical Department, School of Military Science and Tactics, School of Mines and Metallurgy. These with the School of Engineering constitute the University of Missouri.

**Enrollment.** The students of the University come from almost every county in Missouri. Forty-eight states and foreign countries were represented in the 1,671 students enrolled last year.

**Religious Influence.** Almost all denominations are represented in Columbia. Few towns of its size in the West can be compared with it in the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association. There is a student prayer meeting at eight o'clock every morning. Prayers by officers of the University also are held every morning. Attendance, however, upon religious exercises is voluntary.

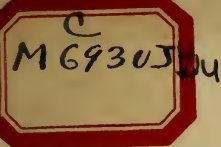
**Athletic Sports.** Our students have teams for football, baseball, basketball, track athletics, and lawn tennis. There is a good Gymnasium and the Athletic Field is one of the best in America.

**Opportunities in Missouri.** Missouri is in wealth and population the fifth State in the Union. Its natural resources, which are vast, have been imperfectly developed. It is a land of opportunity for enterprising young men. The best introduction to any State is through its University. Our students represent the entire State. All members of the graduating classes for the last four years, have accepted positions immediately on graduation.

**Catalogue.** For catalogue giving detailed information concerning the University, address the Registrar, Mr. Irvin Switzler, Columbia, Missouri.

H. J. WATERS, Dean.

July 26, 1902.



UNIVERSITY OF ILLINOIS  
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UNIVERSITY OF ILLINOIS

## BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. III.

DECEMBER, 1902.

NO. 12

### WHAT THE UNIVERSITY HAS DONE FOR MISSOURI.

#### Historical Statement.

The Legislative Act establishing the public school system was approved 9 February, 1839, and that establishing the University was approved 11 February, 1839. The University was located at Columbia, 24 June, 1839. The cornerstone of the Main Building was laid 4 July, 1840. Courses of instruction in Academic work were begun on 14 April, 1841. A department of Education was established in 1867, and work began in September, 1868. In 1869 women were admitted first to this Department, in 1870 to the College, and soon after to all Departments. The College of Agriculture and Mechanic Arts and the School of Mines and Metallurgy were made Departments of the University in 1870—the School of Mines being located at Rolla. The Law Department was opened in 1872; the Medical Department in 1873; the Engineering Department in 1877. The Experiment Station was established, under act of Congress, in 1888. The Missouri State Military School was created a Department of the University in 1890. In 1896 the Graduate Department was established. In 1868 the State gave the University aid for the first time—\$10,000 for two years. On 9 January, 1892, the Main Building, an immense structure, containing the library, museum, and other collections, was burned, the Hall of Agriculture and the Observatory being the only buildings for instruction left on the campus at Columbia. We have had to supply anew buildings, books, and laboratory equipment.

#### Enrollment.

The sum total of students enrolled in the University in sixty-one years, adding the number in one year to that of another and not deducting names counted more than once, is 26,600.

#### Degrees.

The total number of degrees conferred for work done is 2,869. The number of persons on whom these degrees have been conferred (two or more sometimes on the same person) is 2,409. Honorary degrees conferred 152.

## Summer Schools.

The Summer Schools of the University have conferred great benefits upon the teachers of Missouri, and, through the teachers, upon the public schools and their pupils.

The Summer Session was organized primarily for teachers who were giving instruction during our regular session, in the belief that they would take advantage of an opportunity to increase their knowledge of their subjects and to learn the best methods of presentation. Many hundreds of Missouri teachers have been enrolled every summer as students of the University. After spending one or more summers here they have gone back to their schools with new ideas, with new methods, and with increased inspiration.

The enrollment in the Summer Session has increased in a few years from thirty students to more than five hundred, representing eighty-five counties of the State, and including teachers of all grades—superintendents, principals, teachers in the high schools, and teachers in the grades. In seven years thousands of teachers have been enrolled.

In our Summer Schools nearly 1,200 teachers were enrolled in June, July, and August, 1901, and in the same months of 1902. Every one of these teachers is giving better instruction because of the vacation time spent at the University. It is fair to suppose that each of them is teaching not less than fifty pupils. That means that 60,000 children in Missouri are receiving better instruction in this biennial period because of two sessions of our Summer Schools. A hundred of the teachers took instruction in Agriculture here last summer. Forty of them have informed us that what they learned here they are teaching this fall to their pupils. These forty teachers have been giving instruction in the elements of Agriculture to 2,000 children. From the other sixty we have not heard. If they are doing as well, 5,000 children in Missouri are receiving instruction this fall in the elements of Agriculture because of the courses in this subject offered to teachers here last summer.

If one remembers that we have in our winter session also a large number of teachers who are training themselves for public school work, one will see that the University is helping the public schools of this commonwealth at a most astonishing rate. It is, indeed, at the head of the public school system in law, in fact, and in the recognition of the teachers. Of this fact we are justly proud.

## High Schools.

Eleven years ago there were not in all the State more than six high schools that were preparing students to meet the entrance requirements of any good university. Now there are 113. This is astounding growth in eleven years. While there have been other causes for this progress, by far the greatest single cause has been the strenuous influence of the University.

But there has been an increase not only in the number of good high schools but also in the enrollment of pupils in them. In 1891



there were not more than 5,000 pupils in good high schools in all Missouri; there are more than 30,000 now. While there have been many causes for this increase, by far the greatest single cause has been the untiring labors of the University in behalf of the public schools.

We have maintained summer schools for the better training of teachers. We have kept in the field constantly an Examiner who has spent his time visiting high schools and teachers' institutes. Guided by his reports, the officers of the University advise and encourage the schools to equip their laboratories, to furnish their libraries, to increase the staff of teachers, to lengthen the course of study, and to make the work in every respect first-class. Nearly one-fourth of the President's time is given to correspondence with the officers of high schools. Largely as a result of the labors of the University the number of good high schools has increased in eleven years from six to one hundred and thirteen and the enrollment of pupils in them from about 5,000 to more than 30,000.

But the improvement of the high schools means the improvement of the district schools below them. The attempt to build up good district schools without good high schools above them has been tried far and wide and always disastrously. New York City tried it for a shameful number of years but finally established high schools because dry-rot was striking the Seventh and Eighth grades of the district schools. St. Louis has just established two more high schools that there may be a stronger pull upwards upon her ward schools. When, therefore, in eleven years the number of really good high schools in Missouri has increased from 6 to 113, who can estimate the resulting improvement in the district schools? If the University has been the most potent factor in the improvement of the high schools should not she be credited, in large measure, with such improvement of the district schools as has come from that of the high schools?

I wish heartily that the state would give her aid to the establishment of rural high schools in which should be taught agriculture, horticulture, entomology, botany, manual training, and domestic economy, as well as languages, mathematics, sciences, history and English. In my opinion the greatest educational problem before Missouri to-day is how to develop, through state aid and local aid and county aid, a great system of rural high schools—literary, scientific and industrial.

## **Cattle Feeding.**

During the past seven years the Agricultural Experiment Station has given attention to the problems of cattle feeding, and especially to such questions as the cheapest and best methods of wintering cattle; the comparative feeding values of clover, alfalfa, cowpeas, millet, sorghum, corn fodder, and timothy, for wintering cattle and for full feeding; the values of cottonseed meal, linseed meal, and bran compared with corn, and compared one with another when combined with corn for full feeding, in winter and in summer; a comparison of the profits of winter and summer feeding; the value of shelter in winter

for full-fed and half-fed cattle; and the profits of baby beef as compared with those of older cattle.

The Station has collected statistics from over 1,000 of the leading cattle feeders of Missouri, Illinois, Iowa, and Nebraska, concerning the practical details of beef and pork production. This represents a sum total of mature judgment of feeders, based upon about twenty years of experience, and upon an aggregate of 2,500,000 steers fed and marketed.

In addition, to presenting to the beginner the results of this experience of the most successful feeders of the country, these statistics present a summary of our present knowledge of beef production, and outline clearly the kind of work the Experiment Station should undertake. They show what questions have been settled by experience and what problems must be solved by the Experiment Stations.

On account of the work this Station has done along these lines, the United States Department of Agriculture has requested us to prepare a special report to Congress on this subject.

### **Federal Co-operation.**

The Department of Agriculture at Washington, co-operating with the Missouri Station in the most exhaustive study hitherto attempted of the problems relating to Baby Beef, has stationed a special officer at Columbia to collect data and to report the results. Moreover, the United States Government is co-operating with the Station at Columbia in a preliminary Soil Survey, to determine what parts of Missouri are adapted to alfalfa and to point out the way in which this crop may be most successfully grown. The Government is co-operating with us in an extensive experiment in Irrigation, and also in a number of problems in Applied Botany.

### **Entomology.**

Conservative estimates place the average loss to the farmer, stockman, and fruit and vegetable grower of Missouri, from the ravages of insects which may be cheaply and effectively controlled, at between two and three millions of dollars a year.

Many insects which formerly fed entirely upon wild or worthless plants, subsist now upon valuable farm and garden crops—partly because of the disappearance of their natural food, and especially on account of the increased area of cultivated food. Therefore, injurious insects are increasing, not only in numbers, but also in the number of species. Thus new problems about insects are constantly arising which need careful scientific investigation.

The Experiment Station at Columbia having devoted in the last seven years considerable attention to controlling and combating insect pests, has discovered ways of overcoming many of the difficulties which have confronted the Missouri fruit grower and gardener.

For example the Wooly Aphis of the apple has baffled the efforts of all entomologists and of all fruit growers. The Station at Columbia carried on for three years in South Missouri, a series of experiments

which resulted in our finding cheap and effective means of completely controlling this pest. It is estimated by careful commercial fruit growers that this discovery alone is saving the fruit interest of South Missouri from \$75,000 to \$100,000 annually.

An insect known as the Fruit Tree Bark Beetle is now causing more damage to the orchards of Missouri and Arkansas than all other insects combined. Recent investigations made at Columbia show that a new spray mixture, when properly applied, will hold this insect completely in check.

The Fruit Tree Leaf Roller, which appeared only recently in sufficient quantities to cause serious loss, has destroyed practically all the fruit in a number of the leading commercial orchards of the State. After some experiments, the Station has been able to suggest a system of spraying which will entirely prevent injury from this insect.

The Curculio, which stings the apple, has developed in such numbers recently as to reduce the grade of apples in nearly all the Ozark region from No. 1 to No. 2, causing a loss of thousands of dollars. A successful method of controlling this pest has been worked out here.

We have been studying the insects especially injurious to the strawberry in a leading strawberry growing section of South Missouri. One grower reports that the work of the Station along this line saved him eight car-loads of berries in a single season.

The San Jose Scale, an insect that is causing millions of dollars damage to the fruit interest of California and the Atlantic States, has gained a foothold in a number of places in Missouri. The Station has used its best endeavors to locate these infected districts, to keep the insect from spreading, and so far as possible to stamp out the pest. We have not yet succeeded in doing this, but we have prevented it from spreading.

**Horticulture.** Horticulture has made giant strides in Missouri during the past eight years. From third or fourth rank in importance as a fruit state, we now hold first place in the number of growing apple trees. Peach growing, also, has kept pace with this advance, and many other fruits are grown more largely every year within the State. In great measure this is due to the work of our Department of Horticulture at Columbia.

The growth of the fruit industry has not been free from obstacles. In 1897 by prompt action the fruit growers were warned that peach Yellows and Rosette, two deadly diseases of the peach, had probably found a footing in the state, and by co-operating with the orchardists, the Horticulturist of the Station kept a close watch on the suspected localities and had the satisfaction of seeing these menaces to peach growing, which have devastated so many orchards in the East, stamped out before they barely had a beginning in Missouri.

Experiments conducted here show that, by spraying peach trees with a whitewash in late winter, a cheap and effective protection is furnished for the buds which prevents them from starting into growth during some warm day in February only to be killed by a subsequent



freeze. By taking advantage of this apparently simple discovery, large yields of fruit have been secured where otherwise there would have been little or none.

In a test of many scores of new varieties of grapes, which no grower could afford the time, trouble and expense to test himself, not only were several valuable new sorts added to the list to be grown in the West, but nearly half of the varieties experimented with were found to be incapable of forming fruit unless grown adjacent to other sorts from which to receive pollen. This knowledge has been used by a large number of farmers who thenceforth have been successful in their grape growing.

It was demonstrated clearly and conclusively at our Station at Columbia that asparagus could be successfully grown in the open field in the depth of winter, with great profit to the market gardener. The gardeners adjacent to the cities were quick to adopt the plans tested and the five years that have elapsed have not diminished the popularity of the discovery among these practical men. This discovery was made here.

For some time the horticultural department here stood almost alone in advocating certain methods of orchard management. Chief among these was cultivation, which is now observed by all the successful commercial orchardists. Judicious spraying, as advocated by this Station, combined with cultivation, has repeatedly changed failure into success in the apple growing districts. Successful orchardists would now no more think of departing from the principles we have taught them about the management of their fruit trees, than would the farmer neglect certain rules concerning the culture and management of his corn fields. Our new methods have stood well the test of experience.

A careful test made here of the value of watering strawberries in a dry season showed that the yield of fruit could be increased five or six times, and at the same time an abundance of new plants could be formed from runners which otherwise would not have formed at all. This has attracted attention throughout the State.

The best work the department of horticulture at Columbia has done in recent years has been to get into touch with the people themselves, to work with them, and to help them. As evidence of the advancement in this respect, it may be noted that the correspondence of the department—the answering of inquiries on all manner of subjects pertaining to horticulture—has grown in seven years, from 150 to 3500 letters a year. Who can estimate the profit that has come to the State by all these things?

## **Water Power.**

In the summer of 1900 the University at its own expense made a complete survey of all the water power in South Missouri publishing the results in a bulletin which was circulated widely among manufacturers. We showed where there was water power and how it could be carried over electric wires to the nearest railroad station.

## **Missouri Coal.**

In 1901 the University sent an officer to every important coal mine in Missouri to take samples—neither the best nor the worst—for analysis in our laboratories. The geological surveys had shown where the coal beds were and the thickness of the veins but nobody had yet tested the steam producing power of Missouri coals in comparison with those of other states. This work was done very thoroughly by the University and published in a bulletin which was scattered widely among manufacturers.

## **Deposits of Cement-Rock.**

In the last two years the departments of Geology, Chemistry, and Civil Engineering have been combining their efforts to determine whether certain deposits in Missouri can be converted into cement of good quality. The work has gone far enough to enable us to say without hesitation that Kansas City contains large quantities of rock capable of producing cement that seems to be of excellent quality and that deposits of cement-rock of good quality have been found at other places in the State. When deposits are found that seem to contain good cement-rock it is necessary to prove by process of manufacture that cement of good quality can be made out of the material. The stone has to be ground, mixed, burned, ground again, set, and then tested under the crushing machines. If success does not crown the first series of experiments they must be repeated with various modifications until it is finally proved that good cement can or cannot be made out of the material. Our experiments have proved that Missouri contains at Kansas City and at other places immense deposits of rock that can be converted into Portland cement.

## **Chemistry.**

In the laboratory of Agricultural Chemistry at Columbia all the mineral waters of Missouri have been carefully analyzed. The book which the Agricultural Chemist of the University published on this subject has become an authority for the State.

The same laboratory for years has tested the purity of all the fertilizers sold in this State to farmers, fruit growers, and gardeners.

Missouri should have a pure food and drug law, the tests under which should be conducted in this same laboratory, which has rendered in the past so great service to the commonwealth.

## **Good Roads.**

The Department of Engineering at Columbia has made the most careful and elaborate tests that have ever been made on the effect of wide tires upon roads and upon teams. To test the matter thoroughly the experiments had to be conducted on roads of different compositions, and in every sort of weather. Everybody knows that in some weathers wide tires decrease the draft. We found that in some unusual conditions of the roads they increase the draft, but in nine cases out of ten, they represent a decided saving to the team and a benefit to the road-bed. The pamphlet embodying the results of this experiment has been

called for by engineers all over the country. It has become a standard authority on the subject.

The disease commonly known as Texas Fever affects cattle all over the world below a certain line of temperature. More than a third of the United States is included in this infected area. The line is usually about the southern boundary of Missouri, although in some seasons the infection spreads through one or two tiers of counties in this State, and every year, through the transportation of cattle from the South, it is scattered more or less throughout Missouri. The disease is a constant menace to our herds, and it is only by means of the most rigid quarantine and diligent inspection that serious outbreaks and severe losses are prevented.

The Missouri Experiment Station was the first to demonstrate by rigorous experiments that this disease was transmitted by means of ticks. The results of these investigations suggest simple and efficient means of ridding the farms of South Missouri of this infection when by chance it becomes established there.

Of importance to all of the State and the country was the discovery made by our Experiment Station that Northern cattle may be rendered proof against this disease. Formerly when blooded bulls from Missouri were shipped South, from eighty to ninety per cent of them died of Texas Fever. When they have been inoculated at our Station the loss is less than six per cent. Hence the breeders in the South who formerly feared to buy blooded stock from Missouri are now buying it, when inoculated, in large quantities.

A magazine writer recently in summing up the most important scientific discoveries of the Nineteenth Century, mentioned two in Veterinary Medicine, one of which was the discovery of a method of inoculating against Texas Fever made by the Missouri Experiment Station.

Our bulletins reporting the results of these investigations have been translated into many foreign languages, and have been called for by the Veterinarians, Government officials, and cattlemen of India, Italy, Spain, Germany, France, Australia, New Zealand, Cuba, Porto Rico, Mexico, and South America. Hundreds of thousands of dollars worth of Missouri-bred cattle have found a good market in the South, as a result of these experiments.

The Experiment Station is now concentrating its efforts upon the discovery of a preventive for Hog Cholera, and a means of treating a new disease among hogs which this fall has caused a loss to our farmers of many thousands of dollars.

## **School of Mines.**

In one biennial period the School of Mines examined for miners and prospectors, and capitalists 8,000 specimens of Missouri rock and soil supposed to contain mineral. This is not the only contribution which the School of Mines has made to the material welfare of the State.



## Raising Standards.

Not the least contribution of the University to the State has been in the raising of standards in education. We have held aloft by precept and by example the idea that no college or university ought to maintain on its campus a preparatory department. The mixture of a college and an academy in one institution is most unwholesome. By strangling its preparatory department and by raising the standards of admission so that a student must have a good high school education in order to enter any department at Columbia or at Rolla, the University has set in higher education an example that, sooner or later, will be substantially followed by every real college in the State.

The University requires a high school education as a preparation for Law or Medicine. All sound thinkers in education are agreed that it is unfortunate for these professions to admit to them men who have not had proper academic training. After the student has entered the University, we require three years of study for a Law diploma, and four years of nine months each for a Medical diploma. The University has introduced into the State the idea that Medical laboratories of Anatomy, Histology, Physiology, Physiological Chemistry, Pharmacology, Hygiene, Bacteriology, and Pathology should be filled by men, supported by salaries, who give their whole time to reading, writing, teaching, and research, and who do not practice at all. This idea is being adopted gradually by the other Medical schools of the State. The greatest contribution of the University to education in Law and in Medicine has been through the raising of the standards of education in these professions.

## Caring for Missouri.

The State is spending annually a small sum of money for her University. What we are asking out of the General Revenue Fund for *maintenance* in the next biennial period amounts to one cent a year on every hundred dollars of property in the State. A man whose assessment is \$1,000 would pay ten cents a year for maintaining the University. Ten times what our maintenance costs is saved every year to citizens of Missouri through the applications and the results of our scientific work in feeding live stock, in destroying insect pests, in increasing the yield of fruits, vegetables and crops, and in discovering deposits of cement-rock and other minerals. But the greatest return the State receives from the institution is in the vast improvement of the public schools and in the raising of standards in professional education. In addition to these achievements abroad, more than 1,600 young men and young women are receiving instruction at Columbia and at Rolla. Does not the University take care of Missouri? It is at least aiming to do so, and the aim is laudable.

R. H. JESSE.

28 December, 1902.









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THE UNIVERSITY OF THE  
UNIVERSITY OF MISSOURI

## BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. IV.

JANUARY, 1903.

NO. 1.

### THE CONDITION OF THE ALMSHOUSES OF MISSOURI.

#### I.

##### STATISTICS OF CONDITIONS.

An effort was made by the Department of Sociology of the State University last May to collect information regarding the condition of the County Almshouses of Missouri. Question blanks were sent to all of the 114 counties of the State, but only forty of these filled out the blanks in proper form and returned them to the department. The statistics given below are, therefore, those furnished by the forty almshouses of these counties, viz.: Atchison, Andrew, Barry, Barton, Butler, Buchanan, Crawford, Cole, Caldwell, Cass, Clay, Daviess, Greene, Gentry, Jefferson, Johnson, Jackson, Lincoln, Lafayette, Livingston, Macon, Morgan, Montgomery, Monroe, Newton, Nodaway, Oregon, Perry, Pike, Pulaski, Putnam, Platte, Randolph, Ray, Sullivan, Texas, Vernon, Washington, Webster, and Wayne.

It is highly probable that these forty almshouses which reported their condition are as a whole superior to those not reporting, which is also suggested by the fact that the list of counties includes the richest and most populous of the State, if we except the City of St. Louis. If, therefore, the average condition of these almshouses, which include the best in the State, is not high, it is probable that the average condition of the remaining is lower.

The information collected disclosed the following facts regarding these forty almshouses :

The total number of their inmates June 1, 1902, was 962. Of these 567 were male, and 395 female. As regards race, 848 were white, and 114 were colored. Classified by age, 383 were reported to be over 60 years, 493 between 18 and 60 years, and 86 under 18 years. This last point brings out the fact that it is still not unusual to find

children and young persons in Missouri almshouses. The real character of this almshouse population is, however, not disclosed until we classify it according to physical conditions. 127 of the inmates were reported insane, 278 were feebleminded, 66 were epileptic, 57 were blind, 91 were cripples, and 49 paralytic. Thus it is seen that the almshouses of the State are caring for many classes of defectives which in older states are cared for in specialized institutions. The objections to almshouse care for these classes is that the almshouse has usually no facilities for the care of such persons. A suggestion as to the facilities which our Missouri almshouses have for the proper treatment of the insane, for instance, may be gotten from the fact that nineteen out of the forty reporting, provide steel or wooden cells for the incarceration of the violent insane.

As regards almshouse buildings, actual conditions were not always clearly evident from the reports; but judging by the cost of the buildings and accepting the standards of the reporting superintendents we may classify six of the forty almshouses as having excellent buildings, sixteen as having fair, and eighteen as having poor buildings. The actual condition of these buildings is perhaps more clearly brought out by the report in respect to sanitary arrangements, since sanitary arrangements are considered so important in the construction of modern institutions. Out of the forty almshouses only six report modern sanitary arrangements; eight report partially modern, and twenty-six antiquated sanitary arrangements.

As regards the classification of the inmates, which is the fundamental principle upon which a proper administration of the almshouse must rest, the only classification which seems to exist is in regard to sex and color. Thirty-four out of the forty almshouses report that there is separation of the sexes, while six report no separation of the sexes; but in most of the almshouses where separation is reported to exist we may well fear that the separation is nominal rather than real. Fourteen counties have separate buildings for the colored people, and twenty-six have only one building for both whites and colored.

There seems to be very little provision for the sick in Missouri almshouses. In none of the forty was there a trained nurse, and only in fourteen were there matrons provided who acted as nurses in case of sickness.

As regards work, only one almshouse out of the forty reported that work was required of all able-bodied inmates. In twelve others work was optional, and the remaining reported that it was not ex-



pected, although out of the total 962 inmates in the forty almshouses 157 were reported as capable of work.

Of the forty counties, thirty-six possessed farms, intended for cultivation by the almshouse inmates. The average size of these farms was 147 acres. Fourteen superintendents reported that they were furnished assistants in the management of the farms, while twenty-six had no assistants.

Only one almshouse reported the possession of a library. Fourteen out of the forty reported the holding of religious services two or three times a year. The remaining twenty-six were without any religious services whatever.

In thirty-two counties the average yearly expense of the almshouse is \$2,091.31. The average expense per week for each inmate in these counties is \$1.53, but the lowest is only seventy cents. The relatively high average is due to the fact that in a few wealthy and populous counties the per capita expense is high.

Just half of the forty counties still follow the primitive practice of letting out the almshouse and the care of its inmates to the lowest bidder. It is needless to say that this system gives rise to the gravest abuses.

None of the forty almshouses appear to have stringent regulations regarding the admission and discharge of inmates.

## II.

### A SUMMARY OF THE PRINCIPLES WHICH SHOULD GOVERN ALMSHOUSE ADMINISTRATION.

It is universally recognized by those who have studied almshouse-administration that the almshouse is not fitted to care for those classes of dependents who require special or scientific treatment. By its very nature the almshouse is a small local institution which cannot be expected to have at its head an official with professional training and experience. Therefore, certain classes who need special care involving special knowledge should not be committed to the almshouse. These classes include children, delinquents, the insane, the epileptic, the feeble-minded, the blind, and the deaf-mutes. Let us consider in the order given the reasons why these classes should be excluded from the almshouses.

1. Children above the age of babyhood should never be committed to an almshouse because the child through its imitative nature readily takes on the taint of pauper surroundings which cling to it

through life; and because the education of no child can be properly conducted in an almshouse.

2. Tramps and disorderly persons should never be committed to an almshouse, as the almshouse is not a correctional institution, and cannot properly deal with delinquent persons, while their mere presence in the institution brings it into such ill repute that the self-respecting poor shun it even in the direst extremities.

3. Perhaps the presence of no other class in the almshouse gives rise to such grave abuses as the presence of the insane. Because the insane need the medical care of specialists, skilled attendants, cheerful surroundings, and a scientific diet, all of which are lacking in an almshouse, their condition often becomes very pitiable. This neglect easily shades off into the brutality of leaving the insane dirty and half-naked, confined in steel or wooden cells. This continually happens in our State, and will continue so as long as insane persons are allowed to be kept in our almshouses. Insane persons should, therefore, never be committed to the almshouse, and those who become insane after committment should be speedily removed.

4. Epileptics should not be committed to an almshouse, because like the insane they need special medical care and treatment, through which their condition is always improved and permanent recovery sometimes effected. As all epileptics become insane if their disease is neglected, the same objections to almshouse care are applicable in their case as in the case of the insanè.

5. Feeble-minded persons should not be kept in almshouses, because their presence there is both a hardship to the other inmates and a danger to the community. No almshouse is properly equipped to care for and restrain idiotic and feeble-minded persons, while the loose rules of admission and discharge allow such persons to go and come as they please, which is a danger to the community. This is especially a danger in the case of feeble-minded women who, under such lax care, almost invariably become mothers, and so transmit their defect to succeeding generations. Feeble-minded children should, of course, be put into special institutions where, through training, they may be often much improved.

6. The desirability of removing blind and deaf-mute children from the almshouses to special institutions for their instruction was early recognized; but the desirability of special institutions for dependent adults of these classes is also now admitted. Certainly the legislation for removing blind and deaf-mute children from our almshouses should be enforced.

By the exclusion of all classes from the almshouse, which require special scientific treatment, the true function of the almshouse discloses itself. Manifestly the class which remains for almshouse care is the aged and infirm poor. In every old-settled community this class, which requires no scientific treatment, is sufficiently large, and it should be the function of the almshouse to provide a home for them.

Even after classifying so many classes of dependents *out* of the almshouse we still will not have a properly administered institution unless there is classification *within* the almshouse. It is generally recognized that a good almshouse should classify its inmates in at least four different ways. The first and most important classification is in regard to sex. The sexes should be absolutely separated from each other, and if possible housed in different buildings, if the institution is to be kept free from scandal. A second classification, which should not be neglected, is in regard to color. Fully carried out this would result in duplicate institutions, one for whites and one for colored. At the least, it would mean a separate building for the colored if they numbered more than three or four. A third necessary classification is in regard to health. This means that there should be special provision for the sick, and isolation of those who have contagious diseases, such as consumption. The fourth classification which should be made is in regard to mental and moral condition. This means that persons who are congenial should be grouped together and that some persons should be given a room alone.

Even in an ideal almshouse at least this much classification is necessary. But in case the classes above spoken of have not been removed from the almshouse much further classification is required. There should then be isolation of the mentally defective and special provision to keep the children from being contaminated by the other inmates.

The question of classifying properly the inmates of the almshouse brings us to the question of the proper construction of the almshouse. It is now generally agreed that the cottage plan of construction is best. There are many disadvantages to a single large building, not the least of which is that it does not make easy proper classification and separation of the inmates. For an average Missouri county the almshouse should consist of three cottages, one for the female inmates, one for the males, and one for the superintendent's family. The cottages for the inmates should be built to accommodate from ten to twenty-five persons, and should have both dormitories and single rooms to allow for proper classification of the inmates. The cottage



for the superintendent's family would, of course, be smaller. If needed, a fourth cottage for the colored inmates should be added. The whole institution should be equipped with the best modern sanitary arrangements and should preferably be heated by a central plant. The average cost of such an institution, if built of brick, would not be above \$15,000.

Of course, the care of the almshouse and its inmates should not be let out to the lowest bidder, as is done in about one-half of the counties of our State. This "farming out" of the poor, as it is called, gives rise to serious abuses wherever practiced. The proper method is to hire a competent man as superintendent at a fixed salary, and then furnish supplies as needed for the institution by requisitions on the county authorities.

As to management, the most important matter, after those already mentioned, is in regard to the admission and discharge of inmates. The "work-test" should be rigidly enforced; that is, no able-bodied persons should be admitted without being required to work. Only thus can idle and vicious persons, like tramps, be effectually excluded. Inmates should, also, not be permitted to discharge themselves, and should be released only when there is some assurance that they will be properly cared for outside of the institution.

Work should be furnished for all able and willing to work. This should be done, not so much for economy, as on the general principle that the normal person is happier and more content when occupied than when idle. As noted above, in the case of the able-bodied work should be *required*, not optional. Recreation and amusements should not be wholly neglected. For this reason newspapers and books ought to be found in every almshouse, and simple entertainments should be occasional provided for the inmates. Especially ought there to be regular religious services of some sort, if possible, weekly.

If these recommendations can be carried out, the almshouse under a humane and intelligent superintendent may yet become a genuine institution of philanthropy, where the respectable aged and infirm poor may find a home such as enlightened Christian sympathy would give them.







SUPPLEMENT TO JANUARY, 1903, BULLETIN.

SUPPLEMENT TO JANUARY, 1903, BULLETIN.

## THE CONDITION OF THE COUNTY JAILS OF MISSOURI.

I.

## STATISTICS OF CONDITIONS.

An effort was made last May by the Department of Sociology of the State University to collect some information regarding the condition of the County Jails and County Almshouses of Missouri. The results of this investigation as far as it pertained to the Almshouses were published in the January Bulletin, while the results pertaining to the Jails are submitted herewith:

Thirty-eight out of the one hundred and fourteen counties of the State to which the question blanks on jails were sent responded, namely, Barton, Buchanan, Caldwell, Carter, Cass, Clinton, Cooper, Daviess, DeKalb, Franklin, Gentry, Greene, Jackson, Lafayette, Lincoln, Linn, Livingston, Macon, Marion, Mercer, Moniteau, Montgomery, Morgan, Nodaway, Oregon, Perry, Pettis, Pike, Ralls, Ray, Saline, Schuyler, Shannon, Stoddard, Sullivan, Warren, Webster, and Wright.

One of these counties, Morgan, has no jail, but sends its prisoners to neighboring counties; consequently the statistics which follow are those of the remaining thirty-seven counties.

On the whole, the condition of the county jails of the State in the matter of material equipment seems to be far better than that of the almshouses. For example, the cost of the jail buildings, grounds, and equipment in twenty-seven counties which reported upon this point amounted to the sum of \$518,900, an average of \$19,218.52 for each jail. However, \$300,000, or more than half this amount, represents the cost of Jackson county jail, which, if deducted from the total, gives for the twenty-six county jails remaining an average cost of \$8,419.23. But only in the case of ten of these did the cost fall below \$5,000.

As regards the population of the jails, allowance must be made for the fact that the information concerning them was obtained during the summer (for the most part, during June and July), when the number of prisoners is always very small. Probably the maximum number of prisoners confined at any one time in these jails is about three times as high as the figures here given.

In the thirty-seven jails reporting there were four hundred and fourteen prisoners confined at the time the report was made; eleven jails were empty, namely, those in the counties of Barton, Cass, Caldwell, Carter, Daviess, Lincoln, Moniteau, Oregon, Shannon, Webster, and Wright; three others had only one prisoner each, while eight more had less than five each.

As regards sex and color the four hundred and fourteen prisoners were divided as follows: White males, 193; colored males, 176; white females, 11; colored females, 34. The over-preponderance of colored prisoners, both males and females, in proportion to the colored population of these counties is here the striking fact, but one which needs no comment.

Of the four hundred and fourteen prisoners two hundred and forty-eight were serving sentences and one hundred and sixty-five were awaiting trial for felonies or misdemeanors, while one was detained as insane.

Sixteen of those awaiting trial were reported as under eighteen years of age, while twenty-seven of those serving sentences were under eighteen. Those under eighteen who were serving sentences were found in Buchanan, Franklin, Linn, Lafayette, Livingston, Marion, Montgomery, Pike, Ray, and Stoddard county jails.

In regard to proper arrangements for the thorough classification of prisoners, which is the most important matter in jail administration, most of the jails seem extremely deficient. Of the thirty-seven jails twenty-seven reported having separate apartments for women, while ten have not; only six have separate apartments for children, while thirty-one have not; only five have a separate department for old or habitual offenders, while thirty-two have not; only four have a separate department for those awaiting trial, while thirty-three have not; eleven have a separate apartment for the insane, twenty-six have not; four have a separate apartment for detained witnesses, and thirty-three have not. Only one county (Pettis) could report a jail fully equipped to carry out a classification of prisoners in accordance with modern ideas along all the six lines above indicated.

Sanitary arrangements, next to provision for the proper classification of prisoners, are all-important in jail construction; for life in confinement is necessarily unhealthful, and unless sanitary arrangements are perfect the health of the

prisoners and ultimately that of the community are in great danger. It is gratifying, therefore, to note that seven out of the thirty-seven jails report complete modern sanitary arrangements as regards heating, lighting, ventilation, drainage, closets, and bathing facilities; while fifteen others report sanitary arrangements which are in part modern and in fair condition. This leaves fifteen jails in which the sanitary arrangements were poor and antiquated.

Very little provision seems to be made for the care of sick prisoners in our county jails. Jackson county has a hospital in connection with its jail, while two other counties (Buchanan and Pettis) send out sick prisoners to local hospitals. Another county (Cooper) adopts the somewhat unusual method of sending sick prisoners to the county almshouse. The remaining thirty-three jails have either no provision for sick prisoners (eighteen so report) or only the services of a county physician.

Of thirty-two jails which report the material of which their buildings are constructed only one is of wood; twenty-two are of brick; six are of stone; three of brick and stone. Five jails do not report upon this point. The material of the cells in twenty-one jails is reported to be steel; in eleven, iron; in four, stone; while in one case the material of the cells is not reported.

These facts regarding the construction of the jails seem to indicate that the security of the prisoners has been well borne in mind, but there is less evidence that their safety has been always considered. Thus only nine out of the thirty-seven jails are reported to be fire-proof, while only two others are especially supplied with water as a provision against fire. The remaining twenty-six report that there is no provision against fire.

As regards the management of the jail, only seven counties report having a jailer in addition to the sheriff, in the remaining counties the sheriff is the jailer. Only in twelve of the counties is the jailer furnished with assistants in the management of the jail, in the remaining twenty-five he has no assistants.

Matrons are provided to look after women prisoners in eleven of the jails reporting, while twenty-six have no matrons.

The doubtful practice of employing "trusties" (*i. e.*, prisoners who are allowed considerable freedom) to help care for the jail obtains in twelve counties, while twenty-five jails report that trustees are not employed.

The maximum number of prisoners confined in one cell at one time varies from six prisoners downward. Only one jail reports six as the maximum number allowed in one cell, while five report five, five report four, five report three, twelve report two, and seven report one. Two jails do not report upon this point.



Intermingling in the corridors seems to be practically universal. Only one jail (Ralls county) reports that it is not permitted.

Separate confinement does not indeed, appear to be entirely unknown. But apparently it is only used as a means of discipline and resorted to only in the case of refractory prisoners. Twenty-six jails report that it sometimes employed, while nine report that it is not employed, two jails again not reporting.

As regards the employment of prisoners, which in the management of a jail is second in importance only to the proper classification and separation of prisoners, and to sanitation, only eleven counties report that work is required of their prisoners; in eighteen other counties employment is optional, that is, work is furnished if the prisoner is willing to work, but he is not required to work. Seven county jails report that no employment is furnished their prisoners.

The nature of the employment furnished was indicated in only twenty-two instances. In eight cases the employment was breaking rock; in seven cases it was work on the county roads; and in seven cases it was merely odd jobs around the jail.

Religious services are held in thirteen of the jails "sometimes" according to the reports; in twenty-four no services are held.

The discipline of the prisoners is uniformly reported to be good, though in only about half the jails are methodical rules of living enforced upon the prisoners. Sixteen jails report the enforcement of such rules, while fifteen report that they have no rules.

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## II.

### A SUMMARY OF THE PRINCIPLES WHICH SHOULD GOVERN THE CONSTRUCTION AND MANAGEMENT OF COUNTY JAILS.

The county jail has been called "a school of crime." The promiscuous herding of prisoners of all ages, both sexes, and of all degrees of criminality which so often obtains in county and city jails is certainly in the highest degree demoralizing to the prisoners, spreads the contagion of crime among them, and so makes the jail an instrumentality in the propagation of crime. So bad has the county jail been generally in this country that many experts have not hesitated to advocate its entire abolition, while others would make it merely a place of safe custody for those awaiting trial. Both of these courses are, however, impossible with our present political institutions. Moreover, the reform of the county jail is entirely

practicable if a knowledge of the principles which underlie its correct administration can be widely diffused.

The vital point in jail administration, all experts agree, is adequate provision for complete classification and separation of the prisoners. It is the promiscuous association together of prisoners in idleness which is the source of their corruption in our present jails. Classification and separation of prisoners is, therefore, the remedy for most of the evils connected with the jail system.

An adequate classification should provide separate apartments (1) for women, (2) for children, (3) for witnesses and for insane persons, (4) for first offenders, and (5) for old or habitual offenders. These five classes of prisoners should be entirely separated from one another; hence their apartments should be in separate rooms of the jail, or at least separated by partitions which render communication between them impossible. If the jail has two stories the first story may be divided into two apartments for men (for first offenders and for old offenders), while the second story may be divided into apartments for women, children, insane persons and detained witnesses. The department for children should be as remote as possible from the rest of the jail, and should consist simply of a number of well guarded rooms rather than of a series of steel cells. Children, indeed, should never be committed to jail if a place of safe custody can be found for them elsewhere; especially is this true of children under twelve years of age. But it will often be necessary that children under sixteen be confined in jail, and hence a suitable apartment must be provided for them. Insane persons also should not be committed to jail except under exceptional circumstances as when extremely violent or inclined to commit criminal acts, and then detained only pending their examination or the making of arrangements for their removal to a hospital. In most cases a single room, properly safe-guarded, will be sufficient in a county jail for both the insane and the detained witnesses, as the number of these classes who have to be dealt with is small except in large urban communities.

The above classification of prisoners should be supplemented and reinforced by the separate confinement of each prisoner. That is, only one prisoner should be allowed to occupy a cell, and communication between cells should be rendered difficult if not impossible. This "separate system" of confinement as it is called, is unanimously recommended by experts for city and county jails. It is the distinguishing feature of the English jail system, and English jails are the best in the world. The following are some of the chief advantages of separate confinement in county jails: (1) It secures the salutary effect of a first arrest upon inexperienced offenders, which is dissipated by association; (2) it prevents the contagion of

crime which results in making our jails schools of crime; (3) it prevents the escape of prisoners and at the same time protects the jailer, making the government of the jail an easy matter; (4) it is wholesome discipline for the vicious; (5) it protects the better class of prisoners who do not wish to associate with the vile and depraved, and saves them from recognition and annoyance by other prisoners after their discharge.

The usual objection to separate confinement is that it is injurious to health. But English experience has amply demonstrated that solitary confinement for a period of less than nine months does not seriously affect health, and ninety-nine per cent of the jail sentences of this country are for periods of less than nine months.

The best jails in the United States, as those of England, are managed upon the separate system. Sheriffs who have tried separate confinement for each prisoner say that they would not return to the old system. It is the only system which makes jail-breaking practically impossible, the management and control of prisoners easy, and which effectually prevents the moral contamination of prisoners by one another and gives to each ample opportunity for reflection and repentance.

The only serious objection to the separate system for jails is that it makes the furnishing of employment for prisoners difficult. But the labor of jail prisoners is never a matter of profit, as it is clearly impossible to employ profitably a small number of prisoners who are constantly changing. The labor of jail prisoners is, therefore, chiefly a matter of discipline. On this account it is important and should be required of every prisoner serving a sentence, even though it be only a short one; but on this account it can also easily be adapted to separate confinement. Either piece-work can be given to the prisoner in his cell, or he can be put to work alone upon the rock pile, so many hours each week. Several rock piles may be used if there are several courts to the jail. In the case of old, hardened offenders it would be permissible to set a group of them at work on the same rock pile under the rule of strict silence; but this should never be done with the young first offenders or those awaiting trial.

Of course the separate system cannot be adopted at once by the jails of this State, as that would involve the remodeling, if not the rebuilding, of most of them. But every jail can introduce it to some extent. All jails, *e. g.*, can prohibit the promiscuous intermingling of prisoners in the corridor. Nearly all jails can introduce the five-fold classification of prisoners, spoken of above, with little expense, while the better equipped jails can easily provide for the separate confinement of first offenders, the class which most needs protection from the demoral-



izing influences of the jail. Finally every new jail can be erected on the principle of a separate cell for every prisoner and separate apartments for each class of prisoners.

As regards the number of prisoners confined in a single cell, there seems to be little excuse for the large number confined in one cell at present in some counties except antiquated conditions. The writer has known of as many as thirteen prisoners being confined in a single large cell in one of the jails of the State. If it is demoralizing for even two prisoners to occupy a cell in common, it must be worse for three, four, and even six prisoners to be thus confined together. Such a practice, as well as the permitting of promiscuous intermingling continually in the corridor, is utterly subversive of all the ends sought by imprisonment.

The matter of the employment of prisoners in jails has already been incidentally noted. It should be an axiom in jail management that idleness, especially idleness in association, puts a premium upon crime and gives opportunity for every evil to flourish inside the prison walls. County courts, therefore, should make every effort to furnish prisoners in county jails with employment. But one form of employment furnished jail prisoners in this State is of doubtful character; that is, work upon the public roads. This necessarily takes the prisoners in gangs far from the jail, exposes them to public gaze, subjects them to degrading treatment by armed guards, and has so many other objectionable features that experience has everywhere condemned such work as a rational way of employing prisoners.

Methodical rules of living should by all means be enforced upon prisoners in jails; that is, they should be required to rise and retire at definite hours, to devote so much time to work, to meals, and (if possible) to study and reading each day. This discipline is good for the prisoner and is what his moral nature especially needs. Above all, the prisoner should be forced to keep himself and his cell scrupulously clean; for "cleanliness is always akin to godliness" and has a reformatory effect upon the prisoner.

Books and papers for prisoners should always be rigidly inspected and excluded if they are not of the highest moral character. Games of chance should not be permitted except under exceptional circumstances.

Regular religious services should be held if possible, but better yet would be the encouragement of regular visits to the prisoners in their cells by sensible persons who wish to do personal religious work with them.

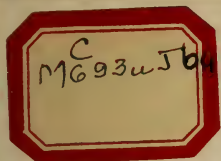
As regards the proper construction of the jail, the principal points have been already dealt with in discussing the management. The chief matter is the provis-

ion for the classification and separation of prisoners through having a number of rooms or apartments in the jail and separate cells for each prisoner. Another matter of great importance is security against jail-breaking. This is best accomplished by the use of the steel-cell construction. Open steel cages are, however, not desirable, but the cell should be constructed of steel plate. The walls, ceiling, and door of the cell should be of heavy steel plate, while the window should be protected by three-quarter inch round steel bars braced by cross bars. If the floor of the cell is not of steel it should be of solid concrete several feet in thickness. In order to prevent jail-breaking tools being passed to the prisoners through the outside windows it would be well to cover them with a fine wire screen which would give clear evidence of any attempt to introduce such articles.

Another important matter in the construction of a jail is protection against fire. Every jail should be so constructed as to be practically fire-proof. This can be easily accomplished if the steel-cell construction with brick or stone walls is used. If the sheriff's residence is attached to the jail there should be a fire-proof partition between the two.

The matter of sanitary arrangements in the construction of a jail as already noted, is of the highest importance. There should be a plentiful supply of water and in each cell there should be a modern improved water-closet and wash-bowl, both properly vented. In connection with each apartment there should be adequate bathing facilities. Heat should be provided by a steam or hot water system. Ventilation and drainage should be perfect. Finally, the jail should be well lighted both by night and by day.

Jails constructed and managed as this paper has described will be but little, if any, costlier than our present jails. In the long run they will be much cheaper, for they will not be crime-breeders, as our present jails are, but they will aid in the repression of crime and the reclamation of the criminal class.

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## BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. IV.

FEBRUARY, 1903.

NO. 2.

### Former Students Living in Missouri.

The number of students enrolled in the University in sixty-one years, adding those in one session to those in another and not deducting names counted more than once, is 26,600. The number of degrees conferred for work done is 2,869. The number of persons on whom these degrees have been conferred (two or more sometimes on the same person) is 2,409. Of honorary degrees 152 have been conferred.

For two years the University has been collecting information about its alumni and former students to the end that we may have correct records of these friends and may send to them information about the progress of their Alma Mater. At considerable expense, and with great labor, we have printed a list of our *graduates*, which we believe to be correct. The Alumni Recorder read carefully the records of the Board of Curators from the foundation of the University, and examined all the catalogues, that he might find out all the graduates. Nothing human is perfect, but we believe that this list is as accurate as it can be made with the means within our reach. If you desire a copy of this list, we will send it to you with pleasure.

We are now endeavoring to find the names and the addresses of all the former students of the University, whether graduates or not, that are living at this time in Missouri. We have made a list of them, arranged according to the counties in which they now live. We have begged our friends by hundreds to give us the names and addresses of all the former students of the University known to them as residents of Missouri. Many have responded with lists, but some have taken no notice of the request. It seems to us wise, therefore, to publish the incomplete list just as it is to-day, county by county, requesting our former students, for the sake of the University and for the credit of



the counties in which they are now living, to correct the list and to furnish us additional names. There is not, I believe, a county in Missouri which does not contain a number of our former students. Will you be kind enough upon receipt of this bulletin to send me immediately a list of all the former students of the University known to you and now *living in the county in which you reside*? Will you not be very careful to give me in every instance the initials, the name correctly spelled, and the postoffice address? When we once have an accurate list of all our former students now living in Missouri, we may make a list of former students living in other states. It surely is right for us, so far as possible, to keep track of our former students and to let them know what progress the University is making.

If you want to know how the University has grown in the last 11 years, I can send you, if you request it, a short bulletin giving an astonishing amount of information. We have just issued an interesting bulletin showing "What the University Has Done for Missouri." It shows that we are returning to the people of the State every year in money many times more than we receive per annum from the general revenue fund, and more still in what is better than money. If you would like to see this bulletin, and will write for it, I will send it to you with pleasure.

You will be interested to hear that the University is struggling hard to lift up to the highest—the life as well as the intellect of its students. The administration has no higher aim than to make the institution a stronghold of righteousness as well as of intellectuality. The righteousness to which I allude means a "Zeal for doing what is right." You cannot lead students into higher life by discipline alone, but much can be done through wise leadership and brotherly kindness. Much can be accomplished if the President and members of the Faculty become thoroughly interested in the students as men and women. In a large institution of learning the administration should be willing to spend money for leading the students upwards socially and morally as well as intellectually. Because we are working earnestly in this direction, it must not be assumed that social and moral conditions here are not improving constantly. They have been growing steadily better in the last 11 years at least, but they never become in any place so good as to render further improvement impossible.

The University during the earlier years of my residence here was compelled by fire and other disasters to give its attention almost wholly to buildings, libraries, and laboratories, all of which pertain chiefly to intellectual life. If the students of that period did not seem

to feel much attachment for their Alma Mater, the chief blame for this might perhaps justly be laid upon the University, although it should be said in fairness that the policies of the years from 1891 to 1896 were largely determined by circumstances over which we had little control. We have changed radically our policies as circumstances have permitted us to change. The door seems to be opening wider and wider for higher policies in the future. We want to give our students now and hereafter abundant reason to love the University, and we want to find the students of the past who came here in sterner days to show them that their Alma Mater means to remember them constantly.

We have been aiming to make the University so fine in intellectual work as to provoke every alumnus to feel proud of his diploma. If I were to tell what success we have had in this respect, you would consider me boastful. Evidence is abundant to show that in the last 10 years no state university in the Mississippi Valley has gained reputation more rapidly throughout the country than our own, and especially among institutions of higher learning. In fact, our standing among the great universities of other states is higher than it is at home, because these institutions watch our growth with closer attention than people generally do in our own State.

## ALUMNI AND FORMER STUDENTS.

It is possible that some of the people whose names appear on this list never attended the University. Please help us to correct these errors also. Our lists should contain no names but those of former students. They should contain the names of all our former students now living in Missouri. There are probably not less than 10,000 of them. Please address all correspondence to me at Columbia, Missouri.

R. H. JESSE.

### ADAIR COUNTY.

Wallace Alexander .....Kirksville  
 R. S. Cole.....Kirksville  
 Gordon Dinsmore .....Kirksville  
 Leota L. Dockery .....Kirksville  
 J. E. Heyd .....Kirksville  
 B. P. Gentry .....Kirksville  
 Thos. W. Imbler .....Kirksville  
 Lewis Imbler .....Kirksville  
 Todd Kirk .....Kirksville  
 Billie P. Six .....Kirksville  
 J. E. Weatherly.....Kirksville  
 A. H. Smith .....Kirksville  
 Mrs. Elmer Green .....Kirksville  
 Ethel Ardella Dockery ....Kirksville  
 Ethel Ringo .....Kirksville  
 Robert L. Kirk .....Kirksville  
 Frank Heyd .....Kirksville  
 Emmet Hamilton .....Kirksville  
 Jno. R. Kirk .....Kirksville  
 Ivie McGuire .....Kirksville  
 J. E. Rieger .....Kirksville  
 \_\_\_\_\_ Motler .....Kirksville

### ANDREW COUNTY.

L. W. Booher .....Savannah  
 P. C. Breit .....Savannah  
 D. B. Bryant.....Savannah  
 Harry Coffey .....Savannah  
 Clyde Cottrill .....Savannah  
 Harley Hoar .....Rea  
 Hobson Hoar .....Rea  
 C. A. Terhune.....Savannah  
 W. B. Wells.....Savannah

### ATCHISON COUNTY.

H. F. Browning.....Fairfax  
 Evelyn Gaede .....Fairfax  
 N. O. Hopkins .....Westboro  
 W. R. Littell.....Tarkio  
 F. W. Stafford.....Tarkio  
 Jno. Stafford .....Tarkio  
 C. A. Wells .....Phelps City  
 Henry W. Morgan .....Watson  
 Lonnie J. Pierce .....Rockport  
 Milan Hedgepath .....Rockport  
 W. H. Morgan .....Rockport

Will Holloway .....Rockport  
 Gertrude Thompson .....Tarkio  
 Dr. Owen Hunter.....Fairfax  
 Walter Schubert .....Rockport  
 Dr. R. E. Bird .....Rockport  
 Geo. Bird .....Rockport  
 N. C. Trout.....Tarkio  
 Jno. Buckham .....Rockport

### AUDRAIN COUNTY.

Jno. L. Anderson .....Vandalia  
 J. T. Baker.....Mexico  
 C. A. Barnes.....Mexico  
 J. N. Baskett.....Mexico  
 Jas. H. Bassett.....Mexico  
 H. L. Bickley.....Mexico  
 C. C. Bledsoe.....Mexico  
 Lena Botts .....Vandalia  
 W. W. Botts.....Mexico  
 W. Burch .....Ladonia  
 R. H. Burney.....Mexico  
 C. F. Clark.....Mexico  
 P. H. Cullen.....Mexico  
 Chas. G. Daniel .....Vandalia  
 Jas. W. Daniel.....Vandalia  
 W. H. Daniel.....Vandalia  
 Jno. Deteine .....Vandalia  
 Fowles .....Mexico  
 Ernest Irvine .....Vandalia  
 F. R. Jesse.....Mexico  
 W. Clyde Johnson.....Vandalia  
 Oscar Kent .....Mexico  
 Roland Mason .....Mexico  
 J. G. McCune.....Vandalia  
 J. T. McPike.....Vandalia  
 R. D. Rodgers .....Mexico  
 Mrs. Crete Rose.....Vandalia  
 Dr. J. O. Terrill.....Vandalia  
 Dr. G. F. Toalson.....Mexico  
 Dr. W. H. Turner.....Mexico  
 E. E. Vannatta.....Vandalia  
 E. C. Waters .....Vandalia  
 R. E. Wilkinson.....Mexico  
 Rolla McIntire .....Mexico  
 Dr. J. F. Flynt.....Molino  
 Ross Biekley .....Mexico  
 Wm. Kennan .....Mexico  
 Ernest Tate .....Mexico  
 Orlando Hitt .....Mexico

R. R. Arnold.....Mexico  
 Jas. J. Bassett.....Mexico  
 L. M. Gamble.....Mexico

# **BARRY COUNTY.**

T. Alexander.....Monett  
 E. G. Bayless.....Cassville  
 J. S. Davis.....Cassville  
 C. C. Fawver.....Seligman  
 M. C. Lucky.....Exeter  
 M. McMahan.....Exeter  
 Roseberry.....Exeter  
 W. D. Steele.....Cassville

# **BARTON COUNTY.**

Dr. G. D. Allee.....Lamar  
 D. B. Fant.....Lamar  
 L. M. Garrett.....Lamar  
 Mabel Harkless.....Lamar  
 G. E. Huggins.....Lamar  
 F. A. Lee.....Lamar  
 Rebecca Quirey.....Minden  
 H. W. Timmonds.....Lamar  
 B. G. Thurman.....Lamar  
 Blanche Turnbull.....Lamar  
 S. N. Van Pool.....Lamar  
 Dr. H. T. Wells.....Lamar  
 Roy Wells.....Lamar  
 T. L. Willis.....Lamar  
 Dr. J. K. Cole.....Lamar  
 H. C. Thurman.....Lamar  
 Ed. R. Jones.....Lamar

# **BATES COUNTY.**

A. Barrow.....Foster  
 J. A. Brundige.....Adrian  
 E. N. Chastain.....Hume  
 H. C. Cockerill.....Rich Hill  
 Kate Corbin.....Hume  
 W. B. Dawson.....Hume  
 Emma Depee.....Butler  
 H. V. Geiger.....Rich Hill  
 B. F. Jeter.....Butler  
 Emma Mattingly.....Rich Hill  
 Dr. Herbert Rhodes.....Foster  
 Jesse E. Smith.....Butler  
 Wm. Weeks.....Rich Hill  
 William Philbrick.....Rich Hill  
 Julia Weeks.....Rich Hill  
 Clarence Wood.....Hume  
 Fannie Grider.....Hume  
 Florence Slater.....Rich Hill  
 R. E. Johnson.....Butler  
 J. P. Thurman.....Butler  
 W. W. Graves.....Butler

# **BENTON COUNTY.**

W. E. Benz.....Warsaw  
 J. A. Clark.....Warsaw  
 C. W. Fristoe.....Palopinto  
 H. Fristoe.....Palopinto  
 W. J. Huse.....Warsaw

H. P. Lay.....Warsaw  
 Florence Lay.....Warsaw  
 Emma Lingle.....Warsaw  
 T. F. Parks.....Benton County  
 A. F. Reid.....Benton County  
 Laura White.....Warsaw  
 T. C. Owen.....Warsaw  
 Mrs. Ella D. Heath Antnett.....Poplar

# **BOLLINGER COUNTY.**

J. W. Caldwell.....Marble Hill  
 Herbert McKee.....Zalma  
 E. L. Drum.....Marble Hill  
 Chas. Revelle.....Marble Hill

# **BOONE COUNTY.**

Chas. P. Palmer.....Sturgeon  
 Mrs. E. W. Hinton.....Columbia  
 W. W. Garth.....Columbia  
 Mrs. W. W. Garth.....Columbia  
 Mrs. J. C. Jones.....Columbia  
 Mrs. L. E. Thompson.....Columbia  
 Mrs. Harry Bragg.....Columbia  
 Mrs. Emma P. Willis.....Columbia  
 Evalyn Willis.....Columbia  
 Snowden B. Willis.....Columbia  
 Florence Willis.....Columbia  
 John S. Willis.....Columbia  
 Mrs. Sidney Calvert.....Columbia  
 J. Kirk Fyfer.....Centralia  
 Mrs. T. J. Rodhouse.....Columbia  
 Mrs. J. C. Whitten.....Columbia  
 Tete Todd.....Columbia  
 Rev. C. H. Winders.....Columbia  
 Jos. P. Wright.....Columbia  
 J. C. Whitten.....Columbia  
 Martha Fine.....Columbia  
 Beulah Baker.....Columbia  
 Ira Stone.....Columbia  
 Mary Walker.....Columbia  
 Mary Fisher.....Columbia  
 Julia G. Fisher.....Columbia  
 A. T. Ficklin.....Columbia  
 T. B. Hickman.....Columbia  
 E. W. Hinton.....Columbia  
 B. F. Hoffman.....Columbia  
 Dr. R. L. Hopper.....Columbia  
 Ida E. Howard.....Columbia  
 W. L. Howard.....Columbia  
 Dr. C. M. Jackson.....Columbia  
 R. H. Jesse, Jr.....Columbia  
 Eva Johnston.....Columbia  
 D. W. B. Kurtz, Sr.....Columbia  
 Isidor Loeb.....Columbia  
 Turner McBaine.....Columbia  
 J. P. McBaine.....Columbia  
 Geo. L. Morehead.....Columbia  
 Lucy O. Morehead.....Columbia  
 Helen Montgomery.....Columbia  
 Maud E. Montgomery.....Columbia  
 Dr. W. Moss.....Columbia  
 M. W. Meyer.....Columbia  
 Minnie K. Organ.....Columbia  
 Jacob Sellinger.....Columbia



Julia Conway .....	Columbia
J. E. Crumbaugh.....	Columbia
Dr. J. L. Corlew.....	Columbia
S. F. Conley .....	Columbia
M. R. Conley .....	Columbia
W. A. Cochel.....	Columbia
W. B. Cauthorn .....	Columbia
Louise Cauthorn .....	Columbia
E. B. Cauthorn .....	Columbia
Mrs. R. J. Hodges.....	Columbia
Laura B. Campbell.....	Columbia
G. C. Broadhead, Jr.....	Columbia
H. H. Broadhead .....	Columbia
G. H. Beasley.....	Columbia
Mary J. Barnett.....	Columbia
J. S. Banks.....	Columbia
J. G. Babb.....	Columbia
Mrs. L. G. Ankeney.....	Columbia
H. B. Almstedt.....	Columbia
Dr. C. C. Guthrie.....	Columbia
Rob. B. Harshe.....	Columbia
Claudia M. Hatton.....	Columbia
Dr. Max W. Myer.....	Columbia
Dr. W. E. Belden.....	Columbia
Mary M. Belden.....	Columbia
Hugh Baker .....	Columbia
Mrs. J. S. Chandler .....	Columbia
J. W. Ballenger.....	Columbia
Mrs. J. G. Babb.....	Columbia
W. T. Ballenger .....	Columbia
Mrs. S. F. Conley.....	Columbia
Julia G. Burgess.....	Columbia
Mrs. F. E. Russell .....	Columbia
Wm. Guitar .....	Columbia
Jas. H. Guitar.....	Columbia
Dr. Chas. Hume.....	Columbia
F. D. Hubbell.....	Columbia
Jno. Hubbell .....	Columbia
E. M. Hultz.....	Columbia
Mrs. Nat. Torbitt.....	Columbia
Jas. S. Moss.....	Columbia
Mrs. Stanley Smith.....	Columbia
Dr. Stanley Smith.....	Columbia
Dr. Sidney J. Smith.....	Columbia
J. M. Baker.....	Columbia
Sam'l H. Baker.....	Columbia
Mrs. J. S. Branham.....	Columbia
E. L. Mitchell.....	Columbia
Mrs. I. Switzler.....	Columbia
Thomas Records .....	Columbia
Peter B. Potter.....	Columbia
W. S. Pratt.....	Columbia
Sara B. Raybourn .....	Centralia
Susie M. Raybourn .....	Centralia
Thos. J. Rodhouse.....	Columbia
C. B. Rollins.....	Columbia
W. H. Rothwell.....	Columbia
C. B. Sebastian .....	Columbia
R. A. Shaw.....	Columbia
Dr. W. R. Smith.....	Ashland
E. W. Stephens.....	Columbia
Sue M. Stone.....	Columbia
Lewis M. Switzler.....	Columbia
W. H. Truitt.....	Columbia
Squire Turner .....	Columbia
Floyd Tuttle .....	Columbia
J. W. Ammerman .....	Columbia
Madeline Branham .....	Columbia
Mary Allen .....	Columbia
Virginia Lipscomb .....	Columbia
Helen Conley .....	Columbia
Lilly Johnson.....	Columbia
Ethel Hudson .....	Columbia
Bessie N. McConathy.....	Columbia
Dr. W. A. Gillaspie.....	Columbia
T. B. Hickman, Jr.....	Columbia
Richard H. McBaine.....	Columbia
Dr. W. R. Shaefer.....	Columbia
Dr. Harry Shaefer.....	Columbia
C. M. Strong.....	Columbia
Dr. R. B. Tilley.....	Columbia
E. V. Vaughan.....	Columbia
J. W. Welch.....	Columbia
Mrs. R. H. Jesse.....	Columbia
Mrs. Alice O. Macfarlane....	Columbia
J. H. Murry.....	Columbia
Dr. W. A. Norris.....	Columbia
W. B. Peeler.....	Columbia
Dr. J. E. Thornton.....	Columbia
J. S. Banks.....	Columbia
Bessie Cauthorn .....	Columbia
Emma Cauthorn .....	Columbia
H. H. Banks.....	Columbia
G. W. Burroughs.....	Columbia
C. B. Bowling.....	Columbia
E. C. Clinkscales.....	Columbia
Jno. S. Clarkson.....	Columbia
L. M. Defoe.....	Columbia
H. E. Draper.....	Columbia
Mrs. Luella W. St. Clair....	Columbia
Rev. H. M. Horton.....	Columbia
R. H. Emberson.....	Columbia
Fannie V. Guthrie.....	Columbia
Estell Bush .....	Columbia
Roy Bush .....	Columbia
Rob Cochel .....	Columbia
Arch Allen .....	Columbia
Cinnie Haggard.....	Columbia
Ella M. Read.....	Columbia
Price Haggard .....	Columbia
Mac Anderson .....	Columbia
Estell Anderson .....	Columbia
Gail Poor .....	Columbia
Thekla Kalm .....	Columbia
Gussie Kalm .....	Columbia
Lula Guthrie .....	Columbia
Neil Crumbaugh .....	Columbia
Mary Allen .....	Columbia
Fannie Nowell .....	Columbia
Mrs. Ella C. Ficklin.....	Columbia
Mary Cochel .....	Columbia
Lottie Cochel .....	Columbia
Chas. B. Davis.....	Columbia
Milton M. Dearing.....	Columbia
C. C. Du Bois.....	Columbia
Mrs. John Connaway.....	Columbia
James R. Fountain .....	Centralia
F. G. Harris .....	Columbia
Mary Jesse .....	Columbia
Carrie Jesse .....	Columbia
Ev. M. Bass .....	Columbia

Mrs. W. T. Moore.....Columbia  
 R. B. Price .....Columbia  
 R. B. Price, Jr.....Columbia  
 Ben. M. Anderson .....Columbia  
 Jno. W. Connaway.....Columbia  
 Eli Penter .....Ashland  
 E. T. Rollins .....Columbia  
 I. O. Hockaday, Jr.....Columbia  
 A. W. McAlester, Jr.....Columbia  
 A. W. McAlester.....Columbia  
 James A. Yantis.....Columbia  
 Henry J. Waters.....Columbia  
 W. S. Williams .....Columbia  
 Irvin Switzler .....Columbia  
 G. B. Rollins .....Columbia  
 Clarkson Rollins .....Columbia  
 Frank Rollins .....Columbia  
 William T. Anderson.....Columbia  
 Will Pratt .....Columbia  
 A. T. Duncan .....Columbia  
 James H. Duncan.....Columbia  
 Mrs. Walter Williams.....Columbia  
 Mrs. H. M. Belden.....Columbia  
 Sallie Flood .....Columbia  
 C. W. Furtney .....Columbia  
 Wellington Gordon .....Columbia  
 Webster Gordon .....Columbia  
 S. D. Gordon .....Columbia  
 M. E. Hultz .....Columbia  
 Sallie R. Kneisley.....Columbia  
 Dr. M. D. Lewis .....Columbia  
 Dr. Henry Mikel .....Columbia  
 Rev. J. M. McGuire.....Columbia  
 Dr. J. A. Miller .....Columbia  
 H. D. Murry .....Columbia  
 D. D. Moss .....Columbia  
 C. F. Marbut .....Columbia  
 W. R. Nifong .....Columbia  
 F. W. Niedermeyer.....Columbia  
 Clarence O'Mahoney .....Columbia  
 Lafayette O'Mahoney .....Columbia  
 Rev. A. W. Pasley.....Columbia  
 Inez Riggs .....Columbia  
 J. W. Schwabe .....Columbia  
 Rachel L. Schwabe.....Columbia  
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 J. L. Stephens, Jr.....Columbia  
 F. P. Daniels .....Columbia  
 Mrs. C. E. Defoe.....Columbia  
 Mrs. N. T. Gentry.....Columbia  
 F. A. Duncan .....Columbia  
 Virginia B. Dyas .....Columbia  
 Dr. W. H. Douglass.....Columbia  
 W. W. Elwang .....Columbia  
 Meta T. Eitzen .....Columbia  
 John N. Fellows .....Columbia  
 Dr. J. M. Fisher .....Columbia  
 Mrs. E. Connoway .....Columbia  
 N. T. Gentry .....Columbia  
 Ed. Gerig .....Columbia  
 Rosalie Gerig .....Columbia  
 C. H. Gordon .....Columbia  
 Dr. James Gordon.....Columbia  
 Dr. R. E. Graham.....Columbia  
 Mary Gray .....Columbia

O. Guitar .....Columbia  
 Emily Guitar .....Columbia  
 Laura Dashiell .....Columbia  
 Dr. J. O. Grubbs.....Deer Park  
 James Lipscomb .....Columbia  
 Millard Lipscomb .....Columbia  
 Hattie M. Elkins .....Columbia  
 Marie Fleming .....Columbia  
 Adell Fleming .....Columbia  
 Laura Gray .....Columbia  
 Nellie Gray .....Columbia  
 Marion Burress .....Columbia  
 Margaret Trimble .....Columbia  
 Mrs. R. T. Hodge .....Columbia

#### BUCHANAN COUNTY.

T. B. Allen .....St. Joseph  
 Wm. K. Amick .....St. Joseph  
 Guy Barr .....St. Joseph  
 J. P. Blunk .....St. Joseph  
 J. Boyer .....St. Joseph  
 W. S. Bretz .....Frazier  
 R. A. Brown .....St. Joseph  
 C. L. Buis .....St. Joseph  
 C. Burgess .....St. Joseph  
 John Connett .....St. Joseph  
 Mrs. O. E. Croson.....St. Joseph  
 A. F. Dailey .....St. Joseph  
 G. W. Eastin .....St. Joseph  
 Hattie Ferrell .....St. Joseph  
 C. C. Ferrell.....St. Joseph  
 L. C. Gabbert .....St. Joseph  
 W. A. Gibson .....Platte River  
 Ben. F. Gray .....Frazier  
 J. A. Stamper .....Saxton  
 John Moore .....Frazier  
 ——— Jennings .....St. Joseph  
 Charles F. Kellar.....St. Joseph  
 D. B. Kelley.....St. Joseph  
 Tillie Lohr .....St. Joseph  
 John McNeely .....St. Joseph  
 W. S. Meyer .....St. Joseph  
 Robert S. Meyers.....St. Joseph  
 L. A. Michelson.....St. Joseph  
 Hattie Miller .....St. Joseph  
 Maude Miller .....St. Joseph  
 Orestes Mitchell .....St. Joseph  
 W. H. Moore .....Faucett  
 B. N. Mosman .....St. Joseph  
 Florence Nesbitt .....St. Joseph  
 Pleasant P. Nesbitt .....St. Joseph  
 H. F. Owsley .....Agency  
 Bassie Potter .....St. Joseph  
 H. M. Ramey .....St. Joseph  
 J. J. Reynolds .....Agency  
 W. E. Sherwood .....St. Joseph  
 A. P. Shull .....St. Joseph  
 Rena M. Shull .....Platte River  
 S. S. Shull .....St. Joseph  
 O. E. Shultz .....St. Joseph  
 Eugene Silverman .....St. Joseph  
 J. M. Simmons .....St. Joseph  
 O. M. Spencer.....St. Joseph  
 R. L. Spencer .....St. Joseph  
 C. F. Strop .....St. Joseph

Wm. H. Utz .....St. Joseph  
 G. L. Zwick .....St. Joseph  
 Milton J. Bauer .....St. Joseph  
 Austin Stamper .....Garrettsburg  
 B. R. Harmon .....De Kalb  
 O. S. Harmon .....De Kalb  
 Henry Brown .....Faucett  
 Olga Miller .....St. Joseph  
 Ena W. Potter.....St. Joseph

#### BUTLER COUNTY.

Francis J. Bullivant.....Poplar Bluff  
 J. E. Craig .....Poplar Bluff  
 Charles L. Kell .....Poplar Bluff  
 Terrence O. Kennedy ....Poplar Bluff  
 Hattie Davidson .....Poplar Bluff  
 Charles Wright .....Poplar Bluff  
 John Macon .....Poplar Bluff  
 John Withers .....Poplar Bluff

#### CALDWELL COUNTY.

D. E. Adams .....Braymer  
 Dr. B. F. Carr.....Polo  
 S. D. Frost .....Mirabile  
 Bertha George .....Hamilton  
 S. B. Hardman .....Polo  
 J. A. Henkins .....Gouldfarm  
 S. Hendricks .....Polo  
 W. C. Holman .....Hamilton  
 C. C. Johnson .....Hamilton  
 Dr. C. K. Jones.....Kingston  
 Q. Jones .....Kingston  
 F. B. Klepper .....Kingston  
 James Rathbun .....Braymer  
 G. W. Reavis.....Hamilton  
 S. C. Rogers .....Kingston  
 Amos Switzer .....Kingston  
 L. Theilmann .....Breckenridge  
 F. F. Thompson .....Polo  
 F. Tool .....Hamilton  
 Lalla Rookh Rogers.....Kingston

#### CALLAWAY COUNTY.

Rev. W. N. Burnham.....Fulton  
 J. Doc. Craig .....Fulton  
 William Emmons .....Guthrie  
 A. Finley .....Fulton  
 Homer A. Harris.....Tebbetts  
 D. H. Harris .....Fulton  
 David Hughes .....Tebbetts  
 J. C. Humphreys.....Fulton  
 N. E. Jones .....Auxvasse  
 E. L. McCall .....Fulton  
 J. W. Tinscher .....Fulton  
 Dr. D. H. Young.....Fulton

#### CAMDEN COUNTY.

E. M. Carter.....Linnecreek  
 Ray King .....Linnecreek  
 J. R. Moss.....Linnecreek

#### CAPE GIRARDEAU COUNTY.

H. Albert .....Cape Girardeau  
 O. Alexander .....Fruitland  
 R. Bohn .....Cape Girardeau  
 R. Byrd .....Jackson  
 Leslie Fry .....Cape Girardeau  
 B. A. Daugherty.....Jackson  
 Franklin Tacke .....Arnsberg  
 L. M. Fry .....Cape Girardeau  
 Dr. B. W. Hays.....Gordonville  
 G. Houck .....Cape Girardeau  
 T. H. Jenkins .....Oak Ridge  
 W. H. Miller .....Jackson  
 C. C. Oliver.....Leemon  
 R. B. Oliver.....Cape Girardeau  
 W. J. Roberts.....Oak Ridge  
 J. A. Snider .....Jackson  
 J. C. Snider .....Millerville  
 J. D. Wilson.....Cape Girardeau  
 W. S. Dearmont.....Cape Girardeau  
 Henry S. Moore.....Cape Girardeau  
 J. W. D. Wilson.....Cape Girardeau  
 R. B. Oliver, Jr.....Cape Girardeau  
 J. W. Buren .....Cape Girardeau

#### CARROLL COUNTY.

T. B. Adams .....Norborne  
 G. Belcher .....Carrollton  
 Mrs. George Belcher.....Carrollton  
 W. Benson .....Carrollton  
 Robert Brown .....Carrollton  
 William G. Busby.....Carrollton  
 A. C. Bush .....Norborne  
 Dr. R. F. Cook.....Carrollton  
 D. T. Dunlop .....Carrollton  
 Robert Gregory .....Wakenda  
 Thomas N. Marlowe.....Norborne

#### CARTER COUNTY.

H. G. Bulteman.....Grandin  
 Alma M. McGhee.....Grandin  
 M. M. Sheets .....Van Buren

#### CASS COUNTY.

Emma Boardman .....Harrisonville  
 Jas. S. Brierly .....Harrisonville  
 Dr. John B. Brierly.....Gunn City  
 Lelia Britt .....Harrisonville  
 Samuel E. Brown .....Harrisonville  
 George W. Bruce .....Pleasant Hill  
 Richard H. Bruce .....Pleasant Hill  
 F. E. Bybee .....Harrisonville  
 G. W. Corrigan .....Harrisonville  
 J. Culbertson .....Harrisonville  
 R. Brown Daniel .....Harrisonville  
 Dr. A. R. Elder .....Harrisonville  
 Thomas J. George.....Gunn City  
 Dr. Wm. F. George.....Belton  
 Allen Glenn .....Harrisonville  
 Charles R. Hall .....Harrisonville  
 Thomas N. Haynes .....Harrisonville  
 James M. Huston .....Belton



G. C. Kimberlin.....Garden City  
 G. P. Kimberlin .....Harrisonville  
 Robert T. Railey .....Harrisonville  
 R. H. Ross.....Creighton  
 Walter R. Brown .....Harrisonville  
 E. E. Morlan.....Garden City

#### CEDAR COUNTY.

Ethel M. Alder.....Cane Hill  
 W. C. Crawford.....Stockton  
 R. L. Hartley.....Stockton  
 J. L. Mitchell.....Stockton  
 T. L. Nelson .....Stockton  
 Chas. E. Prowell....El Dorado Springs

#### CHARITON COUNTY.

Margaret Bogard .....Mendon  
 S. A. Buffington .....Salisbury  
 J. W. Davis .....Brunswick  
 W. S. Drace.....Brunswick  
 Alice Faller .....Brunswick  
 C. A. Greene.....Triplett  
 T. L. Hamlin .....Triplett  
 Orienne Harris .....Brunswick  
 F. W. Hill .....Keytesville  
 W. H. Hill .....Brunswick  
 Judith Inghram.....Brunswick  
 Dr. H. E. Kirkpatrick....Indian Grove  
 William Magruder .....Brunswick  
 Dr. W. T. Magruder.....Brunswick  
 C. F. Merrifield.....Triplett  
 F. Plunkett .....Brunswick  
 Dr. H. Tatum.....Brunswick  
 Margaret Hall .....Prairie Hill, P. O.  
 William Perkins .....Brunswick  
 Edwin W. Price.....Keytesville  
 Mrs. Etta H. Courtney....Keytesville  
 Alice V. Hancock.....Keytesville  
 Martha Gay Hancock.....Keytesville

#### CHRISTIAN COUNTY.

Frances Elizabeth Bedford....Billings  
 W. L. Howard .....Billings  
 John Netzer .....Billings  
 Peter W. Netzer.....Billings

#### CLARK COUNTY.

T. L. Montgomery .....Kahoka  
 L. Ingold .....Wyaconda  
 Mabel Christie.....Clark County  
 Dr. Z. Brainerd .....Kahoka  
 Warren Ingold .....Wyaconda

#### CLAY COUNTY.

D. C. Allen, LL. D., '98.....Liberty  
 G. F. Bird .....Liberty  
 Dr. Bosserman .....Kearney  
 G. Dollis .....Kearney  
 L. B. Dougherty .....Liberty  
 B. A. Gow .....Liberty

A. Haynes .....Excelsior Springs  
 J. H. Jenkins.....Liberty  
 C. A. Laffoon.....Kearney  
 Charles Leitch .....Liberty  
 J. Love .....Liberty  
 C. Maughmer .....Kearney  
 P. Parker .....Liberty  
 D. C. Simrall .....Liberty  
 Robert E. Ward .....Birmingham  
 W. R. Scudder .....Kearney  
 B. F. Willhite.....Barry

#### CLINTON COUNTY.

James Whitson .....Gower  
 J. C. Wingate .....Hemple  
 Ben. A. Atchison.....Gower  
 B. B. Beery .....Cameron  
 Dr. C. W. Chastain.....Plattsburg  
 W. M. Dougherty .....Cameron  
 Talitha Jennie Green .....Lathrop  
 R. W. Grier .....Hemple  
 E. C. Hall .....Plattsburg  
 H. T. Herndon .....Plattsburg  
 W. S. Herndon .....Plattsburg  
 Mrs. Georgie Jones.....Plattsburg  
 J. A. Livingstone.....Cameron  
 C. B. Newby .....Plattsburg  
 Dr. R. W. Rea.....Plattsburg  
 Brutus Riggs .....Cameron  
 R. E. Searce .....Plattsburg  
 Edith Shipley .....Cameron  
 Thomas W. Walker.....Plattsburg  
 John Parman .....Lathrop  
 P. R. Price .....Plattsburg  
 L. E. Clark .....Gower  
 Dr. J. C. Starks.....Gower  
 W. B. Sanders .....Gower  
 W. F. Wren .....Gower  
 James A. Bland.....Plattsburg  
 John W. Shaver .....Lily  
 Conway Grayson .....Grayson

#### COLE COUNTY.

W. H. Bassett.....Jefferson City  
 Ida Belch .....Jefferson City  
 J. E. Belch .....Osage City  
 M. P. Belch .....Jefferson City  
 F. M. Brown .....Jefferson City  
 H. B. Church .....Jefferson City  
 W. Clarke .....Jefferson City  
 Minnie Crafton .....Jefferson City  
 Charles Davison .....Jefferson City  
 C. E. Dewey .....Jefferson City  
 Blanche Dix .....Jefferson City  
 G. B. Elston .....Elston  
 Hattie Gordon .....Jefferson City  
 Lydia Hanszen .....Jefferson City  
 A. M. Hough .....Jefferson City  
 E. L. King .....Jefferson City  
 James H. Lay.....Jefferson City  
 F. E. Luckett .....Jefferson City  
 J. J. Russler .....Osage City  
 Ed. Silver .....Jefferson City  
 Dr. E. R. Son.....Osage City



G. J. Stampfli.....Jefferson City  
 Charles Stroble .....Lohman  
 W. H. Young .....Jefferson City  
 C. Waldecker .....Jefferson City  
 Margaret Wulfert .....Jefferson City  
 Amelia Wulfert .....Jefferson City  
 Lulu See .....Jefferson City  
 Charles A. Dix .....Jefferson City  
 James M. Young.....Jefferson City  
 Pauline Dallmeyer .....Jefferson City  
 S. A. Baker .....Jefferson City  
 McClellan Stewart .....Marion  
 William McCarthy.....Jefferson City  
 J. W. Heskett .....Jefferson City

#### COOPER COUNTY.

C. L. Buckmaster.....Pilot Grove  
 J. W. Cosgrove.....Boonville  
 C. D. Corum .....Boonville  
 Dr. R. L. Evans.....Boonville  
 Dr. O. W. Cochran.....Boonville  
 W. Craemer .....Bunceton  
 Owen Davis .....Boonville  
 W. V. Draffen .....Boonville  
 J. Miles Elliott.....Boonville  
 Dr. William Evans.....Bellair  
 A. M. Hitch .....Boonville  
 W. M. Hoge .....Boonville  
 D. W. Hunt .....Pisgah  
 D. W. Jones .....Boonville  
 T. A. Johnston.....Boonville  
 C. E. Leonard .....Bellair  
 Tom Marshall .....Blackwater  
 Thomas Marshall .....Boonville  
 William Mittlebach .....Boonville  
 T. H. Morris .....Pisgah  
 F. W. Pigott .....Boonville  
 J. C. Pigott .....Boonville  
 B. Stephens .....Bunceton  
 G. W. Stiffler .....Boonville  
 William H. Swarner.....Boonville  
 F. L. Tucker, Jr.....Gooch Mill  
 A. A. Walker .....Pleasant Green  
 R. D. Williams .....Boonville  
 Dr. G. N. Wilson.....Gooch Mill  
 J. W. Woolridge .....Boonville  
 O. J. Woolridge .....Boonville  
 Laura Wagner .....Boonville  
 Dr. J. D. Potts.....Cooper County  
 Corinne Hazell .....Boonville

#### CRAWFORD COUNTY.

Ernest R. Bass.....Steelville  
 William M. Chapman.....Bourbon  
 Samuel M. Devault.....Cuba  
 Fannie A. Delano.....Cuba  
 Thomas S. McNichol.....Cuba  
 Thomas O. Renfrow.....Steelville  
 Sallie A. E. Watson.....Fanning

#### DADE COUNTY.

Elmer J. Allen .....Dadeville  
 Grace Allen .....Dadeville

Charles T. Bell .....Everton  
 Ad. V. Coppedge .....Dadeville  
 Robert D. Cowan.....Dadeville  
 Ida Depee .....Greenfield  
 Edwin Frieze .....Greenfield  
 Roll Griffith .....Greenfield  
 Minis Lightner .....Greenfield  
 Helen Lindsey .....Lockwood  
 Ben. M. Neale .....Greenfield  
 S. E. Osborn .....Arcola  
 S. A. Payne .....Greenfield  
 Harry Rowe .....Ward  
 Mrs. Eda Sloan.....Greenfield

#### DALLAS COUNTY.

Levi Engle .....Buffalo  
 W. Carroll Hawkins.....Buffalo  
 Frank Marrow .....Buffalo  
 Floyd O'Bannon .....Buffalo  
 Dr. B. W. Vaughn, Jr.....Urbana

#### DAVISS COUNTY.

L. B. Gillihan .....Gallatin  
 Ralph M. Pickell .....Pattonsburg  
 Gay A. Robertson .....Gallatin  
 T. B. Ford.....Gallatin  
 F. C. Haynes .....Gallatin  
 Sara Raybourn .....Gallatin  
 C. Johnson .....Jamison

#### DE KALB COUNTY.

Dr. Z. T. Arnold.....Amity  
 E. H. Hornberger .....Maysville  
 H. C. Hughes .....Stewartsville  
 J. C. Moorman.....Maysville  
 R. L. Shull .....Amity  
 I. F. Riggs .....Weatherby  
 Silas Riggs .....Maysville  
 Z. T. Riggs .....Maysville  
 L. E. Saunders .....Stewartsville  
 Charles E. Stokes.....Fairport  
 C. E. Estes .....Fairport  
 O. W. Moorman .....Maysville  
 Charles L. Ficklin.....Maysville  
 D. L. Shultz .....Maysville

#### DENT COUNTY.

Julia Butler .....Salem  
 A. E. Dye .....Salem  
 J. F. Eaves .....Salem  
 Thomas Holman .....Salem  
 A. H. Love .....Salem  
 Daisy Organ .....Salem  
 S. H. Ware .....Salem  
 Gratia E. Woodside.....Salem  
 Roy C. Woodside .....Salem

#### DUNKLIN COUNTY.

J. H. Bradley .....Kennett  
 R. S. Caruthers .....Kennett  
 R. S. Douglass.....Malden

T. R. R. Ely.....Kennett  
 G. E. Snider .....Kennett  
 Sadie T. Kent.....Malden  
 Zetta Dalton .....Malden  
 Mrs. Otilie Douglas, Jr.....Malden  
 J. M. Douglas, Jr.....Senath

#### FRANKLIN COUNTY.

Dr. C. F. Briegleb.....St. Clair  
 Ella A. Busch .....Washington  
 A. H. Bolte .....Union  
 Monroe T. Connally .....New Haven  
 Dr. Ernest L. Haffner.....Berger  
 Lee Highly .....Pacific  
 Dr. Gust Schmidt.....Pacific  
 James Booth .....St. Clair  
 P. E. Gerber .....Campbellton  
 Oscar E. Meyersick.....Union

#### GASCONADE COUNTY.

W. G. Bek .....Hermann  
 F. A. Braun .....Hermann  
 C. M. Ellis .....Hermann  
 Paul J. Grass .....Hermann  
 Ben. Hoffman .....Hermann  
 William Niebruegge.....Hermann  
 F. O. Spohrer .....Hermann  
 Robert Walker .....Hermann

#### GENTRY COUNTY.

Granville Butler .....Gentryville  
 William Butler .....Gentryville  
 C. G. Comstock .....Albany  
 Blanche Enyart .....Stanberry  
 Ethyl Enyart .....Stanberry  
 A. C. Frisby .....Stanberry  
 C. H. Gray .....Stanberry  
 G. L. Gray .....Stanberry  
 W. L. Gray .....Stanberry  
 S. D. Gromer .....Stanberry  
 Stanley M. Haas.....Albany  
 Bishop Hatheway .....Stanberry  
 Sherman Hire .....Gentry  
 Esther N. Holden .....Albany  
 E. D. Manring .....McFall  
 S. F. Marsh .....Stanberry  
 Strausie McCaslin .....Stanberry  
 W. T. Merrill .....Albany  
 Walter S. Monroe .....Albany  
 Oliver Morrison .....Stanberry  
 C. L. Mosley .....Stanberry  
 William H. Quigley.....Albany  
 Henry Ralston .....Stanberry  
 J. T. Rucker .....Stanberry  
 Bea Thomas .....Albany  
 C. C. Thomas .....Albany  
 Fred W. Urban .....King City  
 M. P. Whaley .....Albany  
 M. S. Williams .....Lone Star

#### GREENE COUNTY.

James Case .....Springfield  
 Smith Crenshaw .....Springfield

A. S. Cowden .....Springfield  
 D. M. Diffenderfer .....Springfield  
 Harry Diffenderfer .....Springfield  
 George W. Goad .....Springfield  
 Nellie Gideon .....Springfield  
 Thomas H. Gideon.....Springfield  
 A. W. Lyon .....Springfield  
 James T. Neville .....Springfield  
 Ross C. Patterson .....Springfield  
 J. W. Silsby.....Springfield  
 A. H. Wear .....Springfield  
 Mrs. M. Lyons.....Springfield  
 Lula Nichols .....Springfield  
 E. H. Favor .....Springfield

#### GRUNDY COUNTY.

C. J. Bain .....Trenton  
 Homer J. Bain.....Trenton  
 R. M. Cook .....Trenton  
 G. K. Foster .....Trenton  
 Martin W. Kent .....Trenton  
 A. G. Knight .....Trenton  
 W. B. Linney .....Trenton  
 G. P. Moore .....Hickory Creek  
 W. D. Stepp .....Trenton  
 Mrs. Leon Wynn .....Edinburg  
 Charles C. Robinson.....Trenton

#### HARRISON COUNTY.

George W. Barlow.....Bethany  
 Gilbert Barlow .....Bethany  
 Miss Lake Brewer.....Ridgeway  
 Kitty Burg .....Bethany  
 George Burris .....Bethany  
 J. R. Hale .....Bethany  
 Cora Lee Harrison.....Bethany  
 Grace Harrison .....Bethany  
 Lester Harrison .....Bethany  
 Robert Higgins .....Bethany  
 Jesse Linthacum .....Ridgeway  
 W. D. Walton.....Bethany  
 Frank Wiley .....Ridgeway  
 S. C. Shipley .....Bethany

#### HENRY COUNTY.

Logan Allen .....Windsor  
 W. S. Banta .....Clinton  
 R. J. Burge .....Clinton  
 John G. Callison .....Windsor  
 Sterling P. Callison .....Windsor  
 Dr. Ira Carney .....Blairstown  
 J. D. Carney .....Clinton  
 Arthur Cock .....Clinton  
 N. B. Conrad.....Montrose  
 E. W. Costley .....Urich  
 Walter G. Davis .....Windsor  
 C. C. Dickinson .....Clinton  
 G. W. Dorman.....Clinton  
 J. B. Dorman.....Clinton  
 S. P. Dorman.....Clinton  
 Bessie Dufty .....Clinton  
 Dr. J. F. Feaster .....Windsor  
 Ross E. Feaster .....Windsor

Crist Gates .....Montrose  
 James Gates .....Montrose  
 W. M. Godwin .....Clinton  
 T. B. R. Hackney.....Urlich  
 W. F. Hall .....Clinton  
 Mrs. Marie L. Hayden.....Montrose  
 J. I. Hinkle .....Clinton  
 Beulah Huston .....Windsor  
 George Immer .....Garland  
 Ed. Lingle .....Clinton  
 L. B. McClain .....Urlich  
 Nate McCutchan .....Windsor  
 L. B. McKean .....Blairstown  
 F. B. Owen .....Clinton  
 W. E. Owen .....Clinton  
 Thomas Parks .....Windsor  
 Dr. Ed. Peelor .....Coal  
 T. A. Pharis .....Clinton  
 H. T. Poague .....Clinton  
 Dr. S. A. Poague.....Clinton  
 L. D. Powers .....Clinton  
 Joe Reynolds .....Calhoun  
 Dr. J. F. Robinson.....Windsor  
 Dr. W. L. Shankland.....Clinton  
 Oscar Toalson .....Urlich  
 O. B. Toalson .....Urlich  
 Mae Waddell .....Windsor  
 Nellie Waddell .....Windsor  
 Miss Shelton .....Windsor  
 S. C. Brightman .....Clinton  
 E. M. Poague .....Clinton  
 Dr. John Powers.....Clinton  
 ————— Witherspoon .....Clinton

#### HICKORY COUNTY.

Mrs. Alta Armstrong .....Hermitage  
 John W. Armstrong.....Hermitage  
 L. E. Brown.....Cross Timbers  
 Artie M. Gentry.....Weaubleau  
 E. E. Liggett.....Wheatland  
 A. W. Miller.....Weaubleau  
 Fount M. Pitts, Sr.....Pittsburg

#### HOLT COUNTY.

H. T. Alkire.....Oregon  
 John Bennett .....Mound City  
 Charles A. Blair.....Mound City  
 Ivan Blair .....Oregon  
 R. B. Bridgeman.....Oregon  
 Lee Callow .....Mound City  
 O. A. Hunter .....Corning  
 Charles Graves .....Maitland  
 John Kennish .....Mound City  
 M. R. Martin .....Oregon  
 Don C. Meyer.....Mound City  
 George W. Meyer .....Mound City  
 W. P. Meyer .....Mound City  
 J. R. Morris .....Oregon  
 G. W. Murphy.....Oregon  
 N. B. Newton.....Craig  
 D. W. Porter.....Mound City  
 Carrie Schulte .....Oregon  
 George Shellenburger .....Mound City  
 C. D. Zook.....Oregon  
 Dr. J. M. Davis.....Craig

#### HOWARD COUNTY.

David J. Briggs .....Fayette  
 Robert M. Bagby.....Fayette  
 J. H. Denny.....Glasgow  
 John R. Hairston.....Fayette  
 John Calhoun Head.....Fayette  
 Leslie Hume .....Admstrong  
 Mrs. W. Pitts .....Roanoke  
 Dr. J. S. Preston.....Armstrong  
 Stephen B. Yancey.....Armstrong  
 C. B. Smith.....Fayette

#### HOWELL COUNTY.

Edward P. Dwyer.....West Plains  
 Dr. Paul Evans.....Olden  
 Edward Zorn .....West Plains  
 Thomas D. Martin.....West Plains

#### IRON COUNTY.

Gus C. Kaesemacher.....Pilot Knob  
 Frank P. Ake .....Ironton  
 James Martin .....Ironton

#### JACKSON COUNTY.

Jennie Adams .....Kansas City  
 R. L. Alexander .....Kansas City  
 E. C. Ballew .....Kansas City  
 A. P. Barton .....Kansas City  
 James Black .....Kansas City  
 Max Blake .....Kansas City  
 George Birmingham .....Kansas City  
 W. K. Bradbury.....Kansas City  
 E. O. Bragg .....Kansas City  
 Mr. Brandon .....Kansas City  
 W. H. Brown .....Kansas City  
 R. Bruce .....Kansas City  
 William Buchholz .....Kansas City  
 Carey M. Carroll .....Independence  
 W. L. Chaney.....Kansas City  
 Homer Clark .....Kansas City  
 R. R. Cloud .....Kansas City  
 G. M. Cole .....Kansas City  
 Fletcher Cowherd .....Kansas City  
 Walker Cowherd .....Kansas City  
 W. S. Cowherd.....Kansas City  
 Goodwin Creason .....Kansas City  
 H. H. Crittenden .....Kansas City  
 T. T. Crittenden, Jr.....Kansas City  
 John T. Crisp.....Independence  
 Mrs. Eva Crowley.....Kansas City  
 H. Clay Daniel.....Kansas City  
 J. S. Denny .....Kansas City  
 Emil Doach .....Kansas City  
 A. H. Doty .....Kansas City  
 Alex. E. Douglass.....Kansas City  
 S. C. Douglass.....Kansas City  
 L. E. Durham.....Kansas City  
 George N. Elliott.....Kansas City  
 Mrs. S. G. Elston.....Kansas City  
 George H. English, Jr...Kansas City  
 Henry N. Ess.....Kansas City  
 W. H. Ficklin.....Kansas City  
 C. V. Fyke.....Kansas City  
 R. B. Garnett.....Kansas City



Richard Gentry .....Kansas City  
J. E. Goodrich.....Kansas City  
T. B. Gentry .....Kansas City  
H. J. Groves.....Kansas City  
J. E. Gibson .....Kansas City  
Frank O. Gudgell.....Independence  
Thomas P. Haley.....Kansas City  
Ben. R. Hall.....Kansas City  
Mrs. T. S. Ridge.....Kansas City  
Jno. P. Flourney.....Kansas City  
Mrs. Urna Lawrence.....Kansas City  
John C. Hall.....Kansas City  
E. F. Halstead.....Kansas City  
Samuel R. Halstead.....Kansas City  
H. C. Hamner.....Kansas City  
John T. Harding.....Kansas City  
Walter Hickman .....Kansas City  
Adam Hill .....Independence  
J. L. Hill .....Independence  
William M. Hill.....Independence  
Patsey Hilt .....Independence  
Mrs. J. G. Paxton.....Independence  
Campbell Chapman.....Jackson County  
Stanley M. Masters.....Kansas City  
J. A. Smith .....Kansas City  
F. M. Underwood.....Kansas City  
Charles L. Triplett.....Levasy  
F. F. Rozelle .....Kansas City  
J. T. Ridgeway.....Kansas City  
G. P. Whitsett.....Kansas City  
J. E. Dunn.....Kansas City  
R. M. Snyder, Jr.....Kansas City  
A. P. Woodson.....Kansas City  
James J. Hitt.....Kansas City  
R. W. Hodge.....Kansas City  
F. Hoover .....Kansas City  
Charles M. Howell.....Kansas City  
Tyre C. Hughes.....Kansas City  
Llewellyn Jones .....Independence  
J. V. C. Karnes.....Kansas City  
W. P. King, Jr.....Kansas City  
John Kramer .....Kansas City  
F. W. Kumpf.....Kansas City  
Gardner Lathrop .....Kansas City  
Charles W. Latimer.....Independence  
Alex. Maitland, Jr.....Kansas City  
T. A. J. Mastin.....Kansas City  
Perry McCullough.....Kansas City  
David S. McGonigle.....Kansas City  
S. A. Mitchell.....Kansas City  
Hampton Moran .....Kansas City  
H. H. Pendleton.....Independence  
Fred H. Perkins.....Kansas City  
F. N. Peters.....Kansas City  
Mrs. F. N. Peters.....Kansas City  
E. D. Phillips.....Kansas City  
Everett E. Phillips.....Kansas City  
J. F. Phillips .....Kansas City  
D. M. Pinkerton.....Kansas City  
Marion B. Procter.....Kansas City  
F. O. Ray .....Kansas City  
T. S. Ridge .....Kansas City  
Frank M. Roberts .....Kansas City  
Omar E. Robinson.....Kansas City  
Dr. Wilse P. Robinson.....Kansas City  
R. T. Sloan .....Kansas City

Ernest E. Smith.....Kansas City  
Dr. J. C. Hickerson.....Independence  
Louis E. Pitts.....Kansas City  
Martin J. Ostergard.....Kansas City  
Jean Shaefer .....Kansas City  
Dr. C. C. Conover.....Kansas City  
Dr. H. H. Lane .....Kansas City  
S. F. Harris .....Kansas City  
R. T. Thornton.....Kansas City  
John B. Love .....Kansas City  
L. S. Ganson .....Kansas City  
T. A. J. Mastin.....Kansas City  
Theo. Clifton Sparks.....Kansas City  
N. T. Jackson .....Independence  
E. M. Staten .....Independence  
O. H. Swearingen.....Kansas City  
Lee Utley .....Kansas City  
Mrs. A. W. Taggart.....Kansas City  
John F. Wade .....Kansas City  
Harry B. Walker.....Kansas City  
E. C. White .....Kansas City  
George Whitsett .....Kansas City  
William S. Woods .....Kansas City  
Thomas B. Woodson.....Kansas City  
T. P. Woodson .....Kansas City  
Mrs. E. G. Young.....Kansas City  
Oland G. Young.....Kansas City  
Barney Zick .....Independence  
S. B. Strother.....Kansas City  
H. S. Conrad .....Kansas City  
J. Le Roy Smith.....Kansas City  
W. A. Hail .....Kansas City  
J. B. Smith .....Kansas City  
William Wade .....Kansas City  
Arthur Adams .....Buckner  
Homer McWilliams.....Kansas City

#### JASPER COUNTY.

G. W. H. Asendorf.....Carthage  
Jake Barker .....Carthage  
William Bishop .....Carterville  
W. W. Boillot.....Carthage  
George E. Booth .....Webb City  
Winnifred Bryan .....Carthage  
C. V. Buckley.....Joplin  
W. C. Burnes .....Carthage  
W. I. Burney.....Webb City  
Carney C. Burr .....Joplin  
John A. Campbell.....Avilla  
E. F. Camron .....Joplin  
Charles Chinn .....Webb City  
Denzil W. Coe.....Carthage  
Urling C. Coe .....Carthage  
John B. Cole.....Joplin  
Myrtle Collier .....Carthage  
B. F. Cox .....Joplin  
Clark Craycroft .....Joplin  
George A. Dabbs.....Joplin  
Hugh Dabbs .....Joplin  
Clarence C. Dilworth.....Joplin  
J. H. Dryden .....Carthage  
Randall Dryden.....Carterville  
Edward S. DuPoncet.....Reeds Station  
Edward Dwyer .....Joplin  
Grant Emerson .....Joplin



Leslie B. Emry .....Carthage  
 George A. Evans .....Carthage  
 Henry C. Felker .....Carthage  
 Eldon J. Fisher.....Joplin  
 Russell A. Fisher .....Joplin  
 J. W. Fleck .....Scotland  
 Olive Fugitt .....Carthage  
 Reuben Fugitt .....Neck  
 Frank Funk .....Webb City  
 P. E. Gardner.....Joplin  
 Elmer Garey .....Joplin  
 Bertha A. Greer.....Joplin  
 Mattie Greer .....Joplin  
 David M. Gregg .....Joplin  
 James A. Gregory .....Joplin  
 J. M. Gwinn .....Joplin  
 Thomas Hackney .....Carthage  
 Westley H. Halliburton.....Carthage  
 F. H. Harrison .....Webb City  
 Annie L. Helphenstine.....Joplin  
 C. P. Hendrickson .....Webb City  
 James Arthur Henley.....Joplin  
 C. E. Hodkins .....Webb City  
 T. P. Howard .....Carthage  
 H. C. Hoyt .....Joplin  
 M. R. Hull .....Carthage  
 Ellis Hummel .....Carterville  
 Burt Johnson .....Webb City  
 Fred. M. Johnson .....Joplin  
 Elmer R. Jones .....Webb City  
 Jennie O. Kahn .....Joplin  
 F. H. Kilburn.....Carthage  
 H. A. Hill .....Maplegrove  
 Leon Kriekhaus .....Joplin  
 Joel T. Livingston .....Joplin  
 B. F. Luttman .....Joplin  
 Frank C. Magruder .....Webb City  
 Omar A. Malsbury .....Carthage  
 Ben. Martin .....Smithfield  
 Grace McCarthy .....Carthage  
 Allen McReynolds .....Carthage  
 Frank L. Moore .....Carthage  
 Anna G. Newell .....Carthage  
 J. E. O'Keefe .....Carthage  
 Herbert S. Peiffer .....Carthage  
 T. B. Perry .....Joplin  
 J. L. Potter .....Joplin  
 W. C. Ragan .....Joplin  
 Thomas J. Roney .....Webb City  
 F. W. Sansom.....Joplin  
 Haywood B. Scott .....Joplin  
 Frank L. Sedgwick.....Webb City  
 Charles G. Siefert.....Joplin  
 R. G. Selvidge .....Joplin  
 T. F. Sexton .....Webb City  
 Dr. M. C. Shelton .....Joplin  
 Harry Smith .....Carthage  
 W. E. Smith .....Webb City  
 Edward L. Shepard .....Joplin  
 C. B. Spencer .....Joplin  
 H. G. Spencer .....Carthage  
 J. W. Storms.....Webb City  
 A. W. Thurman .....Joplin  
 Lulu Van Newman.....Carthage  
 Otto Veatch .....Webb City  
 C. P. Wallace .....Carterville  
 Hubbe R. Wallace.....Webb City

W. O. Waltz .....Carterville  
 E. T. Webb .....Webb City  
 W. N. Wharton.....Carthage  
 John E. Williams .....Joplin  
 A. G. Young.....Webb City  
 James Reed .....Carthage  
 Frank L. Moore .....Carthage  
 Bessie Powell .....Joplin  
 Rupert Peters .....Joplin  
 Fred Swartz .....Joplin  
 Charles Malsbury .....Joplin  
 Rena Keith .....Joplin  
 Emma Price .....Joplin  
 Gertrude McPike .....Joplin  
 J. D. Elliff .....Joplin  
 Ralph Hollingshead .....Joplin

#### JEFFERSON COUNTY.

George F. Booth .....De Soto  
 Thomas S. Byrd.....De Soto  
 Agnes O. Cuolahan .....De Soto  
 Frank R. Dearing .....Hillsboro  
 Mae Gerber .....De Soto  
 G. L. Hawkins .....Hematite  
 M. F. Higginbotham.....De Soto  
 H. B. Irwin .....De Soto  
 George E. Kenner .....Festus  
 John H. Lanning.....Festus  
 Anna McClure .....De Soto  
 R. T. Rolufs.....Herculaneum  
 Homa H. Weaver .....Danby  
 Clyde Williams .....Hillsboro  
 J. G. Williams .....Hillsboro  
 Joseph G. Williams .....De Soto  
 L. T. Dinning, Jr.....De Soto

#### JOHNSON COUNTY.

G. Boisseau .....Holden  
 William Beatty .....Knobnoster  
 N. M. Bradley .....Warrensburg  
 Dr. T. L. Brady.....Warrensburg  
 Jeff. Burruss .....Warrensburg  
 Dr. C. A. Hodsell .....Chilhowee  
 W. C. Grainger .....Warrensburg  
 Leo Gallaher .....Warrensburg  
 E. C. Littlefield .....Knobnoster  
 G. M. Horn .....Holden  
 R. M. Magee .....Warrensburg  
 O. L. Houts .....Warrensburg  
 T. J. Halsey .....Holden

#### KNOX COUNTY.

Maxie Bonnel .....Edina  
 John G. Brown .....Edina  
 T. C. Brown .....Edina  
 Una Corcoran .....Edina  
 W. Earnest Cottey.....Knox City  
 Annie Fowler .....Edina  
 Ed. Gordon .....Edina  
 Mary Grander .....Edina  
 Austin B. Griggs .....Hedge City  
 Frank Hall .....Edina  
 Rose Hudson .....Edina

Dr. William Lucas.....Edina  
 Kate Miller .....Edina  
 John Morton .....Hazelville  
 Fred. B. Parsons.....Edina  
 C. R. Ringer .....Edina  
 Ashby Rouser .....Newark  
 Ruth Rouser .....Edina  
 R. F. Schofield .....Edina  
 Cina Shaffer .....Edina  
 Mabel Wilson .....Edina  
 G. F. Woodward .....Edina

#### LACLEDE COUNTY.

Henry W. Clark .....Lebanon  
 T. L. Luthy.....Lebanon  
 L. C. Mayfield.....Lebanon  
 I. W. Mayfield .....Lebanon  
 Mrs. Mary Mayfield.....Lebanon  
 Mamie Smithpeters .....Lebanon  
 Dr. L. D. Hartley.....Nebo

#### LAFAYETTE COUNTY.

A. E. Asbury .....Higginsville  
 J. M. Bailey .....Higginsville  
 Lee Bascom .....Odessa  
 Walker Bascom .....Odessa  
 R. C. Booten .....Alma  
 J. B. Bradley .....Dover  
 Jas. F. Campbell.....Higginsville  
 Thos. B. Campbell .....Lexington  
 Dr. Robt. C. Carter.....Higginsville  
 George M. Catron.....Lexington  
 Jas. P. Chinn .....Lexington  
 Charles R. Creasey.....Odessa  
 T. J. Duling .....Lexington  
 R. R. Fleet .....Corder  
 J. G. Goodwin .....Alma  
 Martin Herd .....Higginsville  
 Robert A. Hicklin.....Lexington  
 Henry Holtcamp .....Aullville  
 J. W. Horner .....Alma  
 N. M. Houx .....Odessa  
 G. W. Hyde .....Lexington  
 C. A. Keith .....Higginsville  
 Joseph Kuehls .....Odessa  
 Uriah G. Phetzing .....Lexington  
 Leonard G. Ryland .....Lexington  
 Sam Sawyer .....Lexington  
 Joseph Shelby .....Lexington  
 John Uphouse .....Concordia  
 J. P. Wagner .....Higginsville  
 John Walker .....Higginsville  
 Thomas A. Walker.....Higginsville  
 Dr. W. C. Webb.....Higginsville  
 E. J. Westerhouse .....Concordia  
 William B. Wilson .....Lexington  
 Wilson Young .....Lexington  
 W. G. McMeekin .....Higginsville  
 Nellie Bonham .....Higginsville  
 J. G. Webb .....Higginsville  
 Robert Webb .....Corder  
 John Slusher .....Dover  
 John R. Plattenburg.....Dover  
 James Prigmore .....Higginsville

Ada McDaniels .....Higginsville  
 John T. Harwood .....Higginsville  
 Alex. P. Campbell .....Corder  
 Hiram F. Campbell .....Higginsville  
 William A. Blakeley.....Higginsville  
 W. J. Bailey .....Higginsville  
 Tom Shelby .....Lexington

#### LAWRENCE COUNTY.

Harvey Davis .....Pierce City  
 M. F. Davis.....Aurora  
 O. B. Elam .....Aurora  
 C. L. Henson.....Mt. Vernon  
 A. L. Hilpirt .....Mt. Vernon  
 C. A. McCause.....Mt. Vernon  
 J. L. McNatt .....Aurora  
 W. E. Monon .....Aurora  
 James A. Potter.....Mt. Vernon  
 John W. Roberts.....Miller  
 J. N. B. Shelton.....Mt. Vernon  
 John C. Turk .....Mt. Vernon  
 E. J. White .....Aurora

#### LEWIS COUNTY.

W. B. Anderson.....La Belle  
 Siss Barr .....Maywood  
 Dr. J. C. Brown.....Lewistown  
 E. K. Fretwell .....Canton  
 Henry Hunn .....Maywood  
 R. V. Hunn .....Maywood  
 Mrs. Artie Loudermilk.....Maywood  
 Joseph McCutchan .....Bunker Hill  
 R. B. Schofield .....Lewistown  
 Joseph Wash .....Maywood  
 Tom Yancey .....La Belle  
 W. L. Arnold .....Lewistown  
 W. L. Arnold, Jr.....Lewistown  
 J. D. Arnold .....Lewistown  
 H. S. Rouse .....Monticello  
 ——— Smith .....Bunker Hill  
 William Ellis .....Canton  
 ——— Travis .....Bunker Hill  
 D. J. Glaves .....Lewistown  
 E. C. Glaves .....Lewistown  
 Hattie Bumbarger .....Monticello  
 ——— Osgood .....Maywood  
 C. W. Christie .....Lewistown  
 T. F. Arnold .....Lewistown  
 J. L. Patterson .....Canton  
 Frank Hardesty .....La Grange  
 James Agnew .....La Belle  
 Cassius W. Christie .....Lewistown  
 James M. Ball.....La Grange  
 Wash. K. Moore.....Monticello  
 Nathan McCutchan .....Bunker Hill  
 John M. Bates .....Lewis County

#### LINCOLN COUNTY.

Howard Alexander .....Auburn  
 J. S. Alexander.....Auburn  
 Charles D. Avery.....Troy  
 Omer H. Avery .....Troy  
 Frank D. Brown .....Troy  
 Maggie Browning .....Moscow Mills

Clarence A. Cannon .....Elsberry  
 B. J. Creech, Jr.....Troy  
 Clark Duncan .....Olney  
 Jesse J. Duncan .....Olney  
 T. A. Halley .....Troy  
 Frank M. Howell .....Troy  
 Susan Killum .....Winfield  
 Joseph Robert Palmer.....Elsberry  
 Stuart L. Penn .....Troy  
 Henry W. Perkins.....Troy  
 Ben. I. Reed .....Troy  
 Charlie B. Robinson.....Louisville  
 Owen H. Robinson.....Silex  
 Jesse J. Shaw .....Elsberry  
 B. F. Smiley .....Whiteside  
 Robert L. Sutton.....Troy  
 C. B. Robinson .....Louisville  
 S. J. Walton .....Troy

#### LINN COUNTY.

Earl C. Adams .....Linneus  
 W. R. Adams .....Linneus  
 ———— Andrew .....Linneus  
 Andrew A. Bailey.....Brookfield  
 Hayes Barger .....Meadville  
 R. J. Betson .....Linneus  
 T. N. Bresnehen .....Brookfield  
 R. S. Brownlee .....Brookfield  
 E. M. Burke .....Laclede  
 George Casity .....Purdin  
 I. B. Cooper .....Brookfield  
 S. D. Evans .....Meadville  
 W. B. Evans .....Meadville  
 W. E. Evans .....Meadville  
 A. G. Ficklin .....Brookfield  
 H. C. Johnson .....Meadville  
 Hal P. Lander .....Brookfield  
 Edward Loomis .....Meadville  
 Joseph Moore .....Brookfield  
 R. C. Mullins .....Linneus  
 C. W. Northcutt.....Sumner  
 Etta Shepherd .....Meadville  
 James W. Pettijohn.....Brookfield  
 W. H. Seward .....Bucklin  
 Ben. Mullins .....Linneus

#### LIVINGSTON COUNTY.

L. D. Ames .....Chillicothe  
 Maude Beatty .....Chillicothe  
 Leo Brandenberger .....Chillicothe  
 Jacobina Brandenberger ..Chillicothe  
 Homer Chapman .....Chillicothe  
 Fred C. Cleary .....Chillicothe  
 Jennie L. Hall .....Bedford  
 Carry R. Jackson .....Chillicothe  
 Mabel Jackson .....Chillicothe  
 Alpha J. Jackson .....Chillicothe  
 Gustavius Johnson .....Chillicothe  
 Paul Duane Kitt .....Chillicothe  
 Flora Leever .....Chillicothe  
 Scott J. Miller .....Chillicothe  
 Harry Minter .....Chillicothe  
 Virgil B. Stone .....Chillicothe  
 Maurice Wallbrunn .....Chillicothe  
 Kittie Leever .....Chillicothe

#### MCDONALD COUNTY.

John B. Christensen.....Pineville  
 A. V. Manning .....Pineville  
 Jas. W. Miller .....Southwest City  
 O. Puckett .....Pineville

#### MACON COUNTY.

R. W. Barrow.....Macon  
 C. G. Buster .....Macon  
 Dr. W. W. Butman.....Macon  
 John P. Davis .....Bevier  
 D. L. Dempsey .....Macon  
 S. S. Dunham .....Macon  
 Dr. J. M. Edwards.....Bevier  
 Walter C. Goodson .....Macon  
 Ed. S. Jones .....Bevier  
 Otho Mathews .....Macon  
 Dr. W. H. Miller.....Macon  
 Charles Powell .....Macon  
 Dr. C. W. Reagan.....Macon  
 Mabel Richards .....Bevier  
 Dr. W. P. Rowland .....Bevier  
 Harry Rubey .....Macon  
 Thomas L. Rubey.....La Plata  
 Charles T. Sears.....Macon  
 A. C. Terrell.....Macon  
 Dr. W. A. Welch .....Macon  
 Will Welsh .....Macon  
 Dr. G. E. Scrutchfield.....Macon  
 George G. Brown.....Anabel  
 A. C. Thompson .....Anabel  
 N. M. Shelton .....Macon  
 J. R. Hunt .....Ardmore  
 Dr. B. E. Moody.....Excello  
 D. W. Eubanks .....Macon  
 L. M. Dempsey .....Macon

#### MADISON COUNTY.

B. B. Cahoon, Jr.....Fredericktown  
 Henry L. Gale .....Fredericktown  
 N. C. Griffith .....Fredericktown  
 Charles S. Marsh.....Fredericktown

#### MARIES COUNTY.

Miss Sylvia Berger.....Light  
 Dr. Henry Von Gremp.....Vienna  
 Dr. W. Von Gremp.....Vienna

#### MARION COUNTY.

L. Morris Anderson.....Hannibal  
 John G. Cable.....Hannibal  
 Aurora Drescher .....Hannibal  
 David H. Eby .....Hannibal  
 Edward J. Foreman.....Hannibal  
 Roy Glascow .....Hannibal  
 H. C. Heather .....Palmyra  
 A. S. Holmes .....Hannibal  
 Frank Johnson .....Hester  
 R. Z. Lovelace .....Palmyra  
 Eugene W. Nelson .....Hannibal  
 John L. Plowman.....Hannibal



Charles E. Rendlen.....Hannibal  
 Madison Schofield .....Hannibal  
 Frank Shepherd .....Hannibal  
 E. P. Wetherly.....Hannibal  
 Walter Wilber .....Hannibal  
 T. C. Wilson .....Hannibal  
 Barbara Mullen .....Hannibal  
 Bertha G. Schmidt .....Hannibal  
 George W. Whitecotton.....Hannibal  
 Dr. W. P. Hays.....Hannibal  
 W. H. Dulaney .....Hannibal  
 John L. Robards .....Hannibal  
 Osca Hendron .....Hannibal  
 Dr. D. O. Glascock.....Hannibal

#### MERCER COUNTY.

E. B. Bailey .....Princeton  
 T. W. Ballew .....Princeton  
 Thomas Ballew .....Princeton  
 Carl Cockrell .....Princeton  
 John T. Cook .....Princeton  
 James D. Dykes.....Princeton  
 Ben Fairley .....Princeton  
 J. E. Fuller .....Princeton  
 J. S. Harrison.....Princeton  
 Ira Gilbert Madden.....Cleopatra  
 Philip McDonald .....Princeton  
 Charles I. Mullinax.....Princeton  
 Eli N. Mullinax.....Princeton  
 Ira D. Mullinax.....Princeton  
 J. A. Prichard.....Princeton  
 T. O. Ramsey .....Princeton  
 H. H. Thurston .....Princeton

#### MILLER COUNTY.

Rea. H. Allee .....Olean  
 W. L. Allee .....Olean  
 W. S. Allee .....Olean  
 Ernest Benage .....Iberia  
 Dr. John Benage.....Iberia  
 Dr. Otto Benage.....Iberia  
 Lon Brockman .....Eldon  
 Sam Burton .....Capps  
 J. L. Cummings.....Tuscumbia  
 E. J. Davidson.....Aurora Springs  
 Edgar DeVilbliss.....Spring Garden  
 Ralph Harvey .....Eldon  
 P. F. Hauenstein.....Tuscumbia  
 F. W. English .....Olean  
 C. O. Jenkins.....Spring Garden  
 O. O. Jenkins .....Spring Garden  
 W. S. Johnson .....Tuscumbia  
 Frederic Lombar .....Tuscumbia  
 E. C. Weeks .....Eldon

#### MISSISSIPPI COUNTY.

H. M. Brown .....Charleston  
 E. J. Deal.....Charleston  
 J. D. Deal .....Charleston  
 J. M. Haw.....Charleston  
 O. W. Joslyn.....Charleston  
 Roy Ogilvie .....Charleston  
 J. C. Russell.....East Prairie

J. J. Russell.....Charleston  
 Robert C. White.....Bertrand  
 A. D. Simpson.....Charleston  
 Dick P. Berry.....Charleston

#### MONITEAU COUNTY.

Lon Aldridge .....Latham  
 Helen E. Biggs.....California  
 E. A. Briscoe.....Tipton  
 M. C. Burk.....Tipton  
 William Cole .....Clarksburg  
 S. Cook .....Clarksburg  
 W. R. Flynt .....California  
 Mrs. W. R. Flynt.....California  
 Luther Fry .....Tipton  
 H. C. Freudenberger .....Clarksburg  
 Dr. William Patterson.....Tipton  
 Alta Robertson .....Clarksburg  
 Alvin Robertson .....Clarksburg  
 Olin Robertson .....Clarksburg  
 E. Light Sprague.....California  
 Phil H. Stephens.....California  
 Kate Stewart .....Clarksburg  
 Helen Williams .....California  
 Dr. J. W. Marsh.....Tipton  
 Russell Monroe .....Tipton  
 T. Glasscock .....Tipton  
 Sam. Newkirk .....Tipton  
 N. Freudenberger .....Clarksburg  
 R. M. Embry .....California  
 Dr. William Reynolds.....Lupus  
 E. E. Carey.....Clarksburg  
 ——— Newton .....Latham  
 B. S. Couch .....Tipton  
 O. Lynch .....Tipton  
 Lucy Hazell .....Tipton  
 Nora Renshaw .....Tipton  
 A. V. Seitz .....Jamestown  
 Dr. Squire Redmon.....Tipton

#### MONROE COUNTY.

W. H. Alexander.....Paris  
 W. D. Bannister.....Monroe City  
 Charles M. Baker.....Santa Fe  
 A. D. Bell.....Monroe City  
 Samuel S. Bapell.....Paris  
 Penn Brace .....Paris  
 R. N. Bodine.....Paris  
 J. T. Grigsby .....Paris  
 C. E. Smith.....Santa Fe  
 D. P. Violet .....Florida  
 J. H. Whitecotton.....Paris  
 George J. Walker.....Monroe City  
 James P. Boyd.....Paris  
 ——— Carson .....Monroe City  
 Dr. William T. Bell.....Stoutsville  
 C. F. Henderson .....Paris

#### MONTGOMERY COUNTY.

Dr. S. J. Burch.....Rhineland  
 John T. Blair.....Wellsville  
 B. F. Busch.....Americus  
 J. M. Chandlee.....Jonesburg



Dr. S. S. Cox.....Wellsville  
 Dr. W. A. Crockett.....Montgomery  
 Gertrude Fisher .....Montgomery  
 Rev. D. W. Graves.....Montgomery  
 Dr. J. F. Graves.....Montgomery  
 A. Y. Harrison.....Mineola  
 Harry S. Jacks .....Montgomery  
 W. F. Hupe .....Montgomery  
 A. W. Lafferty.....Montgomery  
 W. W. Lewelling.....Montgomery  
 Oscar Morgan .....Montgomery  
 Dr. G. E. Muns.....Montgomery  
 J. V. Nebel.....High Hill  
 Dr. David Nowlin.....Montgomery  
 Rolla Paul .....Montgomery  
 George W. See .....Montgomery  
 M. E. Vermillion.....Middletown  
 O. A. Wilson.....Wellsville

#### MORGAN COUNTY.

Samuel Daniels .....Versailles  
 Mrs. Ed. Harrison.....Barnett  
 Mrs. P. S. Harrison.....Excelsior  
 Conway Jones .....Versailles  
 F. P. Jones .....Versailles  
 A. B. Knipmeyer.....Versailles  
 A. A. Knoop .....Versailles  
 R. A. Norfleet.....Excelsior  
 A. L. Ross .....Versailles  
 W. A. Taylor.....Versailles

#### NEW MADRID COUNTY.

Charles M. Barnes.....Marston  
 A. R. Hunter.....New Madrid  
 Harry Jasper .....New Madrid  
 Albert Lee .....New Madrid  
 Robert E. Mott.....New Madrid  
 Murray Phillips .....New Madrid  
 H. C. Riley.....New Madrid  
 William Riley .....New Madrid  
 James K. Robbins.....New Madrid  
 W. A. Stacy.....New Madrid  
 Howard Steel .....New Madrid  
 R. S. Rutledge .....New Madrid  
 W. H. Marshall.....Morehouse

#### NEWTON COUNTY.

Hugh Armstrong .....Neosho  
 R. Fred. Jones.....Neosho  
 Hampton Moran .....Neosho  
 Chas. E. Prettyman, Jr.....Neosho  
 Leslie Rice .....Neosho  
 L. D. Rice .....Neosho  
 Sam. Rice .....Neosho  
 Horace C. Roark.....Neosho  
 John C. Walker .....Neosho  
 Ilus M. Lee.....Neosho

#### NODAWAY COUNTY.

Dr. F. R. Anthony .....Maryville  
 Hettie Anthony .....Maryville  
 H. McF. Dungan .....Hopkins

J. R. Evans.....Maryville  
 Roy Godsey .....Hopkins  
 James C. Gowney.....Maryville  
 J. P. Keeler.....Maryville  
 Cassius M. Lieb.....Maryville  
 C. O. Rundle.....Burlington Junction  
 E. H. Jones.....Parnell City  
 Fred. Storm .....Maryville  
 Mrs. C. M. Lieb.....Maryville

#### OREGON COUNTY.

Thomas L. Gann.....Alton

#### OSAGE COUNTY.

Dr. W. P. Mahon.....Chamois  
 Z. McKnight .....Chamois  
 John P. Peters .....Chamois

#### OZARK COUNTY.

J. J. Kyle .....Thornfield  
 Elmer Percy .....Thornfield  
 J. W. Pumphrey .....Bakersfield  
 Dr. J. T. White.....Gainesville

#### PEMISCOT COUNTY.

Sam. J. Corbet.....Caruthersville  
 Charles B. Faris.....Caruthersville  
 John Faris .....Caruthersville  
 Corydon Garrett .....Caruthersville  
 Dr. M. H. Hudgings...Caruthersville  
 Carl Huffman .....Caruthersville  
 J. D. Huffman .....Caruthersville  
 Wm. Allen Ward.....Caruthersville

#### PERRY COUNTY.

Samuel Bond .....Perryville  
 G. L. Cashion .....Perryville  
 Edward Robb .....Perryville  
 Robert M. Wilson.....Perryville

#### PETTIS COUNTY.

Dr. Charles L. Parkhurst...Houstonia  
 William Parmerlee .....Sedalia  
 Rosina Hayman .....Houstonia  
 Bruce Barnett .....Sedalia  
 George Barnett .....Sedalia  
 O. M. Barnett .....Sedalia  
 Reuben Gentry .....Sedalia  
 Lee Gentry .....Sedalia  
 C. A. Jenkins.....Longwood  
 Pearl Ferguson .....Houstonia  
 Dr. J. T. Brown.....Houstonia  
 C. W. Bente.....Sedalia  
 Dr. W. T. Bishop.....Hughesville  
 Irene Blair .....Sedalia  
 Jessie Blair .....Sedalia  
 H. H. Bronson .....Sedalia  
 P. E. Briscoe.....Green Ridge  
 E. E. Coddington.....Sedalia

J. Decker .....Sedalia  
 C. A. Deppe .....Sedalia  
 Augustus C. Dow.....Georgetown  
 Harvey D. Dow.....Sedalia  
 E. B. Garner.....Sedalia  
 R. J. Gentry .....Sedalia  
 J. A. Gilker .....Sedalia  
 E. N. Harrison.....Sedalia  
 P. D. Hastain .....Sedalia  
 John T. Heard.....Sedalia  
 R. A. Higdon .....Sedalia  
 Louis Hoffman .....Sedalia  
 Mrs. L. Hoffman .....Sedalia  
 Philip Lamm .....Sedalia  
 Frank Leach .....Sedalia  
 George DeWitt Lee .....Sedalia  
 George F. Longan .....Sedalia  
 Gertrude Maltby .....Sedalia  
 Daisy McGowan .....Sedalia  
 M. A. McGruder .....Sedalia  
 Jennie Norton .....Sedalia  
 William H. Powell.....Sedalia  
 A. L. Shortridge .....Sedalia  
 H. B. Sinnett .....Sedalia  
 P. B. Stratton.....Sedalia  
 Cad Todd .....Sedalia  
 James White .....La Monte  
 John C. Williams .....Sedalia  
 Charles E. Yeater.....Sedalia  
 George Lamm .....Sedalia

#### PHELPS COUNTY.

E. W. Buskett .....Rolla  
 I. P. Frazier .....Rolla  
 J. C. Draper .....Rolla  
 T. Dyer .....Rolla  
 F. R. Cowles .....Rolla  
 J. B. Harrison .....Rolla

#### PIKE COUNTY.

Dr. M. O. Biggs.....Bowling Green  
 Garnett Blair .....Bowling Green  
 E. E. Campbell .....Louisiana  
 Mrs. Champ Clark.....Bowling Green  
 Alex. Cooper .....Paynesville  
 James T. Douglas.....Frankford  
 A. D. Foster.....Springdale  
 B. W. Fry .....Louisiana  
 Mrs. Mollie L. Fry.....Louisiana  
 Mrs. D'Arline McNutt Holcomb  
                                 Bowling Green  
 Carson Jamison .....Annada  
 Alonzo Lawrence .....Bowling Green  
 F. S. Lonsdale.....Ashley  
 Dr. F. S. Love.....Bowling Green  
 J. W. Matson .....Louisiana  
 Robert A. May .....Louisiana  
 J. E. McPike.....Bowling Green  
 Tom Nalley, Jr. ....Louisiana  
 R. R. Rowley .....Louisiana  
 Sam. W. Sparrow.....Louisiana  
 Joseph Tapley .....Bowling Green  
 Miss Watson .....Louisiana  
 Blanche Younker .....Louisiana

Dr. Hurley Wilcoxon....Bowling Green  
 Dr. Sylvester Ragan.....Spencerburg  
 Mae Thomason .....Louisiana

#### PLATTE COUNTY.

Dixie Baldwin .....Platte City  
 Sid. Beery .....Platte City  
 A. D. Burns .....Platte City  
 J. H. Humphrey.....Stillings  
 J. C. Campbell.....Stillings  
 J. E. Olvis.....Stillings  
 Hattie McKee .....Stillings  
 James Shickles .....Farley  
 Otis Jacks .....Camden Point  
 Frank Willhite .....Linkville  
 Mrs. M. H. Clark.....Platte City  
 W. T. Clements .....Platte City  
 Dr. Grundy Coffey.....Platte City  
 J. W. Coots .....Platte City  
 Lee Dresser .....Platte City  
 A. P. Fulcher .....Tracy  
 J. S. Hamm.....Weston  
 J. O. Johnson .....Platte City  
 Mrs. Charles Miller.....Platte City  
 Guy B. Park.....Platte City  
 Norval Wilson .....Settles Station  
 George Zarn .....Platte City  
 W. H. Gabbert .....Dearborn  
 T. T. Thomas .....Edgerton  
 Charles Gustin .....Edgerton  
 Z. Sam. Collins.....Smithville  
 Canly Hawkens .....Weston  
 Amos Marshall .....Platte City  
 B. F. Hamm .....Platte City  
 M. L. Dix.....Dearborn

#### POLK COUNTY.

O. O. Askren.....Bolivar  
 L. Cunningham .....Bolivar  
 L. G. Jones.....Slagle  
 Ora J. McLane.....Humansville  
 C. H. Skinker .....Bolivar  
 C. W. Viles .....Bolivar  
 L. C. Viles .....Bolivar  
 A. Williams .....Bolivar

#### PULASKI COUNTY.

Samuel T. Rollins.....Waynesville  
 Frank H. Wright.....Richland  
 W. H. Locker .....Waynesville

#### PUTNAM COUNTY.

Lawrence Bonfoey .....Unionville  
 G. James .....Lucerne  
 J. H. Putnam .....Hartford  
 Berten Lee Robinson .....Unionville  
 J. C. McKinley .....Unionville  
 Dr. J. H. Holman .....Unionville  
 Guy Weatherford .....Unionville  
 William Marshall .....Unionville  
 Orris Wentworth .....Unionville  
 Frank D. Goul .....Unionville

Eustace Berry .....Unionville  
 Neal Marshall .....Unionville  
 Percy Bonfoey .....Unionville

#### RALLS COUNTY.

J. O. Allison .....New London  
 E. T. Bell .....Hatch  
 O. C. Bondurant .....Nadine  
 Jack Briscoe .....New London  
 G. W. Calvert, Jr. ....Nadine  
 S. S. Carroll .....Perry  
 Geo. Clark .....Center  
 J. A. Coil .....Hutchinson  
 J. H. Coil .....Hutchinson  
 R. M. Downing .....New London  
 Chas. T. Hays .....New London  
 Benj. Hulse .....New London  
 E. W. Keithley .....Center  
 Mrs. E. W. Keithley .....Center  
 Kirtley Lynch .....Noonan  
 R. C. Strode .....New London  
 Dave Wallace .....New London  
 Urton Watson .....New London  
 Timothy Waters .....Nadine  
 Marion McFarland .....Rensselaer  
 Jno. McFarland .....Rensselaer  
 Jno. Northcutt .....Saverton  
 Timothy Waters .....Nadine  
 Wm. Strode .....Spalding  
 Roy McFarland .....Rensselaer

#### RANDOLPH COUNTY.

Frank S. Balthis .....Huntsville  
 Jas. Alex. Berry .....Moberly  
 W. Bowers .....Moberly  
 Willard P. Cave .....Moberly  
 Effie Dossey .....Moberly  
 L. U. Doyle .....Moberly  
 Edwin Elliott .....Moberly  
 Forrest G. Ferris .....Moberly  
 A. C. Gladney .....Moberly  
 Aubrey R. Hammett .....Huntsville  
 Frank B. Harvey .....Moberly  
 Julia Harvey .....Moberly  
 Bolivar S. Head .....Moberly  
 Fannie Hogan .....Moberly  
 S. O. Hunter .....Moberly  
 Robert E. Jarvis .....Moberly  
 J. C. Lilly .....Moberly  
 H. H. Lotter .....Moberly  
 T. J. Lowery .....Huntsville  
 Dr. C. W. Mangus .....Moberly  
 Claude Marshall .....Moberly  
 Rolla R. Rothwell .....Moberly  
 Mrs. Rolla R. Rothwell .....Moberly  
 Will A. Rothwell .....Moberly  
 Henry Terrill .....Moberly  
 Lizzie Terrill .....Moberly  
 J. W. Wight, Jr. ....Moberly  
 C. G. Williams .....Moberly  
 Annie Wood .....Moberly  
 Frank T. Woods .....Moberly  
 O. H. Turner .....Higbee  
 Olin H. Moore .....Moberly

Pearl Ross .....Moberly  
 Mrs. Leila S. Buck .....Moberly  
 Jno. Baxter .....Moberly  
 W. H. Wilson .....Moberly  
 Vincent Terrill .....Moberly  
 Mrs. L. L. Wayland .....Moberly  
 Mrs. W. F. Moore, Jr. ....Moberly  
 Roy Thornberg .....Moberly  
 W. T. Austin .....Huntsville  
 James E. Rucker .....Higbee  
 Flora Whiteford .....Higbee

#### RAY COUNTY.

M. M. Bogie .....Richmond  
 Rector Bogie .....Richmond  
 D. B. Brady .....Richmond  
 Allan T. Broughton .....Hardin  
 C. A. Chenault .....Richmond  
 Clarence Child .....Richmond  
 Claude Crowley .....Richmond  
 G. W. Crowley .....Richmond  
 F. P. Divelbiss .....Richmond  
 J. H. Estes .....Richmond  
 Fowler Graham .....Richmond  
 Marvin Grimes .....Hardin  
 Chas. Gross .....Lawson  
 A. P. Hamilton .....Richmond  
 Geo. Lavelock .....Richmond  
 Thos. Lavelock .....Richmond  
 Elmer T. McGaugh .....Richmond  
 Jonus Morris .....Richmond  
 E. W. Patton .....Richmond  
 C. T. Shepherd .....Hardin  
 Harry B. Smith .....Richmond  
 C. B. Shotwell .....Richmond  
 T. B. Towler .....Richmond  
 P. Van Trump .....Elmira  
 H. P. Woodson .....Richmond  
 Henry R. Buchanan .....Richmond

#### REYNOLDS COUNTY.

Z. C. Smith .....Centerville

#### RIPLEY COUNTY.

J. E. Foard .....Doniphan  
 Thos. F. Lane .....Doniphan  
 W. W. Martin .....Doniphan  
 J. A. Presson .....Doniphan  
 J. C. Sheppard .....Doniphan

#### ST. CHARLES COUNTY.

Ora A. Keithley .....O'Fallon  
 Henry Knippenberg .....Femme Osage  
 Mitchell Castlio, .....Mechanicsville  
 J. H. Pringle .....Foristell  
 Thos. E. Corley .....St. Paul

#### ST. CLAIR COUNTY.

Lee Crook .....Osceola  
 J. Ed. Crook .....Osceloa  
 Dr. J. B. Gathright ....Appleton City

M. W. Gathright .....Appleton City  
 Jno. A. Gilbreath .....Appleton City  
 J. C. Hargus .....Osceola  
 Shradar P. Howell .....Appleton City  
 William C. Lucas .....Osceola  
 H. E. Robinson .....Appleton City  
 R. D. Robinson .....Appleton City  
 Clyne Smith .....Roscoe  
 G. A. Theilman .....Appleton City

#### ST. FRANCOIS COUNTY.

L. N. Gray .....Bonne Terre  
 Lee Heighly .....Farmington  
 W. L. Hensley .....Farmington  
 Ed. Mahn .....Bonne Terre  
 F. O. Poston .....Bonne Terre  
 R. A. Swink .....Farmington  
 C. P. Wilkinson .....Farmington  
 Alvin Rucker .....Farmington  
 F. J. Thompson .....Flat River  
 Wm. F. Wilkinson .....Farmington  
 E. A. Rozier .....Farmington  
 Lida May Swink .....Farmington

#### STE. GENEVIEVE COUNTY.

W. C. Boverie .....Ste Genevieve  
 Geo. Leavenworth .....Ste Genevieve  
 Lawrence H. Vaeth .....Ste Genevieve  
 Stuart M. Wood .....Ste Genevieve

#### ST. LOUIS COUNTY.

Le Roy Brownfield.....Pattonville  
 W. A. Blackwell .....Pattonville  
 Cornelia Brossard .....Kirkwood  
 Henri Chomean .....Clayton  
 Samuel F. Crecelius .....Mehlville  
 S. M. Ford .....Jennings Station  
 W. W. Griffith .....Ferguson  
 R. R. Hogan .....Webster Groves  
 Mrs. Ernest Kroeger...Webster Groves  
 B. L. Matthews .....Clayton  
 O. H. B. Turner .....Maplewood  
 A. E. Gardner .....Maplewood  
 H. L. Stevens .....Lake P. O.  
 B. C. Stevens .....Clayton  
 R. H. Stevens .....Clayton  
 S. W. Shinkle .....Kirkwood  
 Belle Lauman .....Wellston  
 Conway Bates .....Clayton  
 ——— Mottin .....Florissant  
 ——— Meyers .....Florissant  
 Mrs. Joseph Christine .....Ferguson  
 A. W. Brent .....Kirkwood  
 Buell Matthews .....Clayton  
 Mrs. A. W. Brent.....Kirkwood

#### SALINE COUNTY.

C. T. Jackson.....Miami  
 E. G. Alexander .....Blackburn  
 Ralph Alexander .....Blackburn  
 Milton Allison .....Marshall  
 P. H. Beamer .....Blackburn

Virginia Bell .....Miami  
 Paul Biggs .....Arrow Rock  
 C. J. Blackburn .....Blackburn  
 M. P. Blackburn .....Blackburn  
 F. M. Burrus .....Miami  
 G. W. Carpenter .....Miami  
 Mabel Carpenter .....Miami  
 Lou B. Caldwell .....Slater  
 Jas. Cooney .....Marshall  
 A. J. Davis .....Hardeman  
 Geo. F. Davis .....Marshall  
 Joseph B. Davis .....Marshall  
 Dr. J. H. Davidson .....Hardeman  
 Jas. M. Denny .....Marshall  
 Ralph H. Duggins .....Marshall  
 Dr. Robert Durrett .....Orearville  
 Raymond S. Edmonds .....Miami  
 Ab Gore .....Marshall  
 Henry D. Grady .....Miami  
 Gordon Groves .....Blackburn  
 Dr. Jos. Ed. Harris .....Marshall  
 Sam Hill .....Slater  
 C. H. Hitchborn .....Miami  
 Wm. L. Irvine .....Fairville  
 Wm. G. Lynch .....Marshall  
 Martin P. Lyons .....Marshall  
 E. D. Martin .....Marshall  
 Dr. M. S. McGuire .....Arrow Rock  
 Jno. J. McKeever .....Shackleford  
 Len Murrell .....Napton  
 W. B. Napton .....Marshall  
 Ella Parrish .....Miami  
 W. E. Rainey .....Marshall  
 Geo. G. Robertson .....Marshall  
 F. O. Shepard .....Arrow Rock  
 Dr. J. M. Stouffer .....Napton  
 Herbert Striker .....Marshall  
 W. M. Striker .....Marshall  
 Lucian Thompson .....Slater  
 A. J. Trigg .....Marshall  
 Sidney J. Wheeler .....Miami  
 Phylander Young .....Miami  
 Albert E. Parkhurst .....Sweetsprings  
 N. T. Adams .....Marshall  
 Dr. C. W. Caldwell .....Slater  
 E. G. Caldwell .....Slater  
 E. A. Caldwell .....Slater  
 Mabel Price .....Slater  
 J. B. Land .....Slater  
 J. C. Bridges .....Slater  
 G. C. Troy .....Slater  
 J. W. M. Major .....Blackburn  
 Dr. F. M. Wilson .....Marshall  
 J. B. Land .....Slater  
 J. B. Gouldin .....Marshall  
 Chas. Potter .....Marshall  
 Chas. E. Fulton .....Malta Bend  
 Bud Dawes .....Orearville  
 Lucy Burrus .....Miami

#### SCHUYLER COUNTY.

A. A. Justice.....Lancaster  
 A. D. Cripps .....Queen City  
 Rosa Crump .....Lancaster  
 Reverdy Eason .....Lancaster



Isaac Minear .....Lancaster  
D. E. Morris .....Lancaster  
Chas. E. Murrell .....Queen City  
Irvin O'Briant .....Lancaster  
F. C. Shafer .....Lancaster  
C. C. Fogle .....Lancaster

#### SCOTLAND COUNTY.

Robert M. Barnes .....Memphis  
J. O. Boyd .....Memphis  
Dr. E. C. Brainard .....Memphis  
E. A. Cox .....Rutledge  
Ruth Hitch .....Memphis  
Maude Foster .....Memphis  
Gale Holley .....Memphis  
J. L. Sanders .....Memphis  
J. Adam Schenck .....Memphis  
David Schenck, Jr. ....Memphis  
Chas. G. Simon .....Memphis  
Hudson V. Smoot .....Memphis  
L. P. Roberts .....Memphis

#### SCOTT COUNTY.

Ed. Anderson .....Commerce  
Dr. T. R. Frazer .....Commerce  
Lloyd Fullenwider .....Sikeston  
Mike Heisserer .....Benton  
Louis L. Hunter .....Morley  
Dr. W. S. Hutton .....Kelso  
Jos. L. Moore .....Commerce  
S. J. Wade .....Scott County  
Chas. M. Wylie .....Commerce  
Jno. Beardsley .....Commerce  
Steve B. Hunter .....Sikeston  
E. D. Vogt .....Commerce

#### SHANNON COUNTY.

L. S. Lovan .....Winona  
F. P. Osborn .....Gomez  
J. B. Searcy .....Eminence  
G. S. Sizemore .....Eminence  
David Meeker .....Birch Tree

#### SHELBY COUNTY.

Alice Baker .....Shelbina  
Mabel Bates .....Shelbina  
C. P. Bodine .....Shelbina  
Walter Bragg .....Shelbina  
Ida Dobyn .....Shelbina  
E. W. Jewett .....Bethel  
H. H. Jewett .....Shelbina  
Ida Jewett .....Shelbina  
Martha Jewett .....Shelbina  
Roy D. Lasley .....Shelbina  
Roy Homer Love .....Clarence  
Dr. Robert Maupin .....Cherrybox  
W. W. Metthell .....Shelbyville  
Mrs. D. G. Minter .....Shelbina  
C. L. Ried .....Shelbina  
B. T. Willis .....Shelbina  
Jno. H. Wood .....Shelbina  
Mary Miller .....Shelbina

#### STODDARD COUNTY.

Ruth O. Covington .....Dexter  
Rudolph Houck .....Bloomfield  
Wm. F. Smith .....Essex  
A. T. Welborn .....Bloomfield  
Luther Winchester .....Essex  
H. M. Hughes .....Bloomfield  
R. E. Bailey .....Bloomfield  
Geo. Houck, Jr. ....Bloomfield  
W. L. Hodge .....Bloomfield  
Mack Richardson .....Bloomfield  
Charles Buck .....Bloomfield  
J. B. Buck .....Bloomfield  
Franz Weber .....Bloomfield  
Harry E. Alexander.....Bloomfield

#### STONE COUNTY.

Albert Peters .....Crane  
Joseph C. Watkins .....Galena

#### \*SULLIVAN COUNTY.

J. A. Carmack .....Bute  
J. E. Ford .....Osgood

#### TANEY COUNTY.

J. C. L. McKnight .....Forsyth

#### TEXAS COUNTY.

W. E. Barton .....Houston  
C. E. Covert .....Houston  
Wesley Craven .....Licking  
Riley Murrell .....David  
W. A. Riggs .....Houston  
I. N. Windsor .....Licking  
J. D. Young .....Houston

#### VERNON COUNTY.

E. K. Atkinson .....Nevada  
Sam Atkinson .....Nevada  
Fred Birdseye .....Nevada  
J. Rusk Blevins .....Moundville  
Jas. N. Coil .....Nevada  
George Davis .....Avola  
G. D. Edwards .....Nevada  
Mrs. G. D. Edwards .....Nevada  
Irvin Gordon .....Nevada  
C. H. Graves .....Nevada  
J. B. Johnson .....Nevada  
Wm. C. Key .....Nevada  
Florian Lacoff .....Nevada  
J. F. Robinson .....Nevada  
Judson W. Smith .....Nevada  
Ethel B. Swearingen .....Nevada

#### WARREN COUNTY.

F. A. Boehmer .....Warrenton  
Edward W. Bohn .....Truesdale  
E. A. Fuesmeier .....Wright City  
Dr. A. W. Graham .....Warrenton

W. H. Morse .....Warrenton  
 Mrs. A. W. Graham .....Warrenton  
 E. W. Bohn .....Warrenton

#### WASHINGTON COUNTY.

Adella M. Breckenridge .....Caledonia  
 Chas. A. Cole .....Quaker  
 Norman J. Cole .....Quaker  
 Winfred B. Cole .....Quaker  
 Wm. J. Dent .....Caledonia  
 Luther W. Tennyson .....Irondale  
 F. E. Williams .....Belgrade

#### WAYNE COUNTY.

Emma Atkins .....Wayne County  
 J. K. Clubb .....Greenville  
 Dr. Chas. Davis .....Hiram  
 R. H. Davis.....Greenville  
 R. H. Davis .....Piedmont  
 Alice Harvey .....Wayne County  
 Octa Krimminger .....Wayne County  
 Merit M. Sheets .....Wayne County  
 R. L. Ward .....Greenville  
 Myra Withers .....Wayne County

#### WEBSTER COUNTY.

Louis Beazley .....Seymour  
 Jas. Case .....Marshfield  
 A. H. Davis .....Seymour  
 Jos. R. Garner .....Niangua  
 J. E. Haynes .....Marshfield  
 Franklin E. Jennings .....Seymour  
 Wm. T. McMahan .....Seymour  
 Dora Newton .....Seymour  
 J. P. Smith .....Marshfield  
 Thos. P. Whittenburg .....Niangua

#### WORTH COUNTY.

Edward Kelso .....Grant City  
 W. Ray Roberts .....Allendale  
 Della Wilkinson .....Allendale  
 Alma Z. Willhite .....Grant City  
 Ethel B. Willhite .....Grant City  
 J. V. Willhite .....Grant City  
 Frank Willhite .....Grant City

#### WRIGHT COUNTY.

Arthur Bailey .....Mountain Grove  
 Chas. H. Edwards .....Hartville  
 Albert Hensley .....Grovespring  
 Wm. B. Hoag .....Mountain Grove  
 Geo. Hunter .....Mansfield  
 Luther Hunter .....Hartville  
 J. Frank Meador .....Mountain Grove  
 Jno. Moore .....Hartville  
 G. C. Murrell .....Hartville  
 N. A. Murrell .....Hartville  
 C. A. Newton .....Manes  
 Howe Steele .....Hartville  
 T. J. Walker .....Norwood

E. B. Garner .....Hartville  
 Florence Lynch .....Mountain Grove  
 .Y.qCN..7.....c.oe4.....fl vbqkqjj

#### CITY OF ST. LOUIS.

M. M. Anderson .....St. Louis  
 Vassie Ballard .....St. Louis  
 Joe Barth .....St. Louis  
 Joseph Barton .....St. Louis  
 Jno. Bishop .....St. Louis  
 A. G. Black .....St. Louis  
 David R. Blanton .....St. Louis  
 Auther Browning .....St. Louis  
 Roy L. Bunch .....St. Louis  
 Sam Burchard .....St. Louis  
 Sam Campbell .....St. Louis  
 J. F. Conran .....St. Louis  
 W. R. Craven .....St. Louis  
 Jno. L. Deister .....St. Louis  
 A. H. Ohmann-Dumesnil .....St. Louis  
 Dr. Jno. H. Duncan .....St. Louis  
 Chas. A. Fach .....St. Louis  
 Norwood Fitch .....St. Louis  
 Jno. T. Garrett .....St. Louis  
 R. P. Garrett .....St. Louis  
 Wm. O. Gatewood .....St. Louis  
 E. T. Gillaspay .....St. Louis  
 R. F. Grady .....St. Louis  
 Chas. M. Hamilton .....St. Louis  
 V. M. Harris .....St. Louis  
 Jno. W. Harrison .....St. Louis  
 Curtis Haydon .....St. Louis  
 L. Haywood .....St. Louis  
 Dr. Frank L. Henderson .....St. Louis  
 Jas. A. Henderson .....St. Louis  
 W. W. Henderson .....St. Louis  
 Wm. Hilkerbaumer .....St. Louis  
 Curtis Hill .....St. Louis  
 Warwick M. Hough .....St. Louis  
 Wm. T. Jones .....St. Louis  
 R. O. Kennard .....St. Louis  
 Dr. Clarence Loeb .....St. Louis  
 Dr. H. W. Loeb .....St. Louis  
 Roy Macfarlane .....St. Louis  
 Frank J. McCaslin .....St. Louis  
 J. S. McIntyre .....St. Louis  
 Dr. Jesse H. Myer .....St. Louis  
 Franklin Miller .....St. Louis  
 G. H. Moore .....St. Louis  
 W. D. Moore .....St. Louis  
 Jno. H. Overall .....St. Louis  
 Harry Parker .....St. Louis  
 Emmett Pew .....St. Louis  
 Hiram Phillips .....St. Louis  
 R. H. Phillips .....St. Louis  
 Roy H. Pinkley .....St. Louis  
 Geo. S. Pollard .....St. Louis  
 E. O. Potter .....St. Louis  
 Walbridge Powell .....St. Louis  
 W. F. Randolph .....St. Louis  
 Jas. Luke Russell .....St. Louis  
 M. K. Salmon .....St. Louis  
 Dr. E. M. Senseny .....St. Louis  
 — Shinkle .....St. Louis  
 G. B. Smiley .....St. Louis  
 Kimbrough Stone .....St. Louis

Royall H. Switzler	St. Louis	Mrs. Jno. Warren	St. Louis
Wm. F. Switzler	St. Louis	Dr. M. B. Harris	St. Louis
Chas. Talbert	St. Louis	Henry J. Gerling	St. Louis
W. A. Taylor	St. Louis	Wm. S. Harn	St. Louis
G. A. Thompson	St. Louis	E. N. Robinson	St. Louis
Dr. G. H. Thompson	St. Louis	Mrs. Florence Johnston	St. Louis
Guy Titsworth	St. Louis	Odon Guitar, Jr.	St. Louis
Clarence Truitt	St. Louis	Gus. Gerling	St. Louis
Robt. Frank Walker	St. Louis	Mrs. Letitia Bolton	St. Louis
E. E. Wall	St. Louis	Fred Steltmeyer	St. Louis
W. W. Walters	St. Louis	Karl Kimmel	St. Louis
Wm. Weigle	St. Louis	Clarence T. Case	St. Louis
Aikman Welch	St. Louis	Oscar D. Peper	St. Louis
O. A. Wilson	St. Louis	Chas. P. Martin	St. Louis
Chas. E. Young	St. Louis	— Keller	St. Louis
H. T. Curtright	St. Louis	Emil Y. Meyer	St. Louis
Helen M. Evers	St. Louis	Wm. Steinkamp	St. Louis
T. J. Eppes	St. Louis	E. B. Waterworth	St. Louis
M. F. Gordon	St. Louis	C. O. Wright	St. Louis
M. G. Gorin	St. Louis	Thos. Nalley	St. Louis
C. L. Gallant	St. Louis	Wm. L. Harn	St. Louis
W. R. Gentry	St. Louis	Thos. W. Mobrey	St. Louis
H. B. Hilgeman	St. Louis	Frank Weltner	St. Louis
Roy A. Hockensmith	St. Louis	C. G. Rathmann	St. Louis
V. B. Kieffer	St. Louis	Dr. Ozias Paquin	St. Louis
Miss E. C. Kirchner	St. Louis	Mrs. Emily Hutchings	St. Louis
E. P. Horner	St. Louis	E. D. Smith	St. Louis
Dr. T. J. Irish	St. Louis	J. R. Massengale	St. Louis
O. T. Johnson	St. Louis	J. W. Skelley	St. Louis
Mrs. H. J. Gerling	St. Louis	W. A. Palmer	St. Louis
Dr. LeGrand Atwood	St. Louis	F. S. Lyman	St. Louis
I. V. Barth	St. Louis	Lloyd Lewis	St. Louis
W. Y. Bean	St. Louis	G. A. Irvine	St. Louis
Amanda F. Becker	St. Louis	A. J. Haverstick	St. Louis
C. H. L. Beckers	St. Louis	Dr. E. E. Haverstick	St. Louis
Tom Bond	St. Louis	Dr. J. B. Hardy	St. Louis
W. L. Bohnencamp	St. Louis	J. W. Graves	St. Louis
C. E. Beyers	St. Louis	F. Y. Gladney	St. Louis
Levi Chubbuck	St. Louis	Dr. R. L. Bird	St. Louis
Dr. M. F. Brown	St. Louis	J. F. Bogy	St. Louis
N. S. Brown	St. Louis	R. H. Hunter	St. Louis
S. Buckner	St. Louis	Upton M. Young	St. Louis
M. H. Burchard	St. Louis	T. A. Rissell	St. Louis
Tom N. Dysart	St. Louis	Dr. A. L. Fulton	St. Louis
Hal Colman	St. Louis	Celcus Price	St. Louis
Victor Moberly	St. Louis	Dr. C. C. Morris	St. Louis
Mildred McConathy	St. Louis	Luke Evans	St. Louis
E. D. Smith	St. Louis	O. W. Granger	St. Louis
Albert Williams	St. Louis	W. A. Horner	St. Louis
E. C. Gannaway	St. Louis	G. A. Irvine	St. Louis
Dr. J. P. Ruge	St. Louis	D. E. Williams	St. Louis
E. Porter Peers	St. Louis	Mrs. Joseph Christine	St. Louis
Mercer Arnold	St. Louis	B. N. Pippin	St. Louis
J. D. Rippey	St. Louis	Frank Merryman	St. Louis
O. E. Saylor	St. Louis		



# BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. IV.

APRIL, 1903.

JUL 12 1946 NO. 4.

## DEPARTMENT OF LAW.

### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, which is now a beautiful city of 6,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad and also on the Missouri, Kansas and Texas, and the cornerstone of the main building was laid 4 July, 1840. The School of Mines and Metallurgy, a Department of the University, was located at Rolla, Missouri.

### Resources.

Our buildings, grounds, books, and other equipment, are valued at more than \$1,300,000, not including the campus or the grounds for Botany, Horticulture, and Agriculture. The endowment, bearing interest at 5 or 6 per cent is \$1,230,000. The income from the United States Government (Hatch and Morrill Acts) is about \$38,138 a year. Moreover, the Legislature makes appropriations biennially. There is some income from fees for the libraries and laboratories. There are 47,000 acres of unsold land. A State Collateral Inheritance Tax gives us about \$120,000 a year. The income of the whole University, from all sources and for all departments, in each of the calendar years 1902 and 1903 is about \$420,000.

### Tuition Fee.

It is one of the foremost purposes of this University to place higher education within the reach of all who are intellectually and morally qualified to receive it. Therefore, tuition is free in all Departments—Graduate, Academic, Department of Education, Medicine, College of Agriculture, Engineering, Mines and Metallurgy. In these Departments the only charges are a library fee of \$5.00 a session and small laboratory deposits covering the cost of materials used by the students. In the Department of Law the only charge is a library fee of \$10 a year.

### Expenses.

The expenses for room, board, books, and fees vary from \$130 to \$200 a year. For law students who



board in our club houses these expenses need not exceed \$130. For those who get the best board in private families the expenses mentioned above need not exceed \$200 a year. The fees in some colleges and universities will bear all expenses here.

**Buildings.** Observatory, Anatomical Laboratory, three Dormitories, Agricultural Farm buildings, Horticulture building, Greenhouses, Law building, Medical building, Chemical Laboratory, President's house, Museum, Agricultural Hall, Engineering, Mechanic Arts, Power house, Academic Hall, Hospital. Our School of Mines at Rolla has four buildings.

**Libraries.** We have a large library for general readers, and a number of department libraries for professors and advanced students. These libraries contain about 50,000 bound volumes. The law library contains 10,000 volumes and is being added to every month. Besides the libraries of the University, the collections of the State Historical Society, which contain 25,000 volumes, are accessible to our students.

**Open to Women.** All Departments are open to women. A suite of rooms, in Academic Hall, comfortable, beautifully furnished, and strictly private, is reserved for their special use. These rooms are presided over by a Matron. A new Dormitory for women will be ready for occupancy this fall.

**Requirements for Entrance.** A good high school education, or its full equivalent, is demanded for admission. Moreover, the applicant must submit evidence of good moral character. We do not desire students who are not intellectually and morally qualified.

**Religious Influences.** Almost all denominations are represented at Columbia. Few towns of its size in the West can be compared with it in the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the Young Women's Christian Association. There is a students' prayer meeting at eight o'clock every morning. Prayers by officers of the University also are held every morning. Attendance upon religious exercises is voluntary.

**Athletic Sports.** Our students have associations for foot ball, base ball, basket ball, track athletics, and lawn tennis. There is a good gymnasium for men and another for women. The athletic field and the golf links are excellent.

## **Debating Clubs.**

Our students are interested in debating. Much success has attended our contestants in inter-collegiate and inter-university debates.

## **Opportunities in Missouri.**

Missouri contains 69,415 square miles—nearly 3,000 more than New England. The population is 3,106,665. The assessed valuation of property (about one-third of the real value) is \$1,200,000,000. While the development of its resources has scarcely begun, it is the fifth state in the Union in population and also in wealth, and the seventh in manufactures. For agriculture and for mining it is justly famous. It is a land of opportunity for enterprising young men. The best introduction to any state is through its university. Our students represent nearly every county in Missouri.

## **Courses of Study in Law.**

The undergraduate course of study leading to the degree of Bachelor of Laws has been extended to three school years. The studies embrace the general subjects of substantive law and remedial procedure, as prevailing in the United States, and as administered by the state and federal courts.

## **Requirements for Admission to First Class.**

No examination in law is required for admission to the *first* year class provided application is made at the beginning of the year. If application for admission is made after work has been in progress the candidate must submit to examination on the subjects accomplished by the class at the date of his entry. If he should fail on one or two subjects only, a further examination may (in exceptional cases) be accorded him, and he may be admitted upon condition that the work be made up at such time as may be appointed.

## **Requirements for Admission to Junior Class.**

No one will be admitted to the Junior class unless he applies at the beginning of the year, and is qualified in the work of the first year. If he should fail on one or two subjects of the first year he may be admitted in exceptional cases, upon condition that he make up his deficiency at such time as may be appointed. Applicants may be admitted to the Junior class upon certificates from approved law schools showing that they have accomplished the work of the first year or its equivalent. Certificates of admission to the bar will not be accepted.

**Senior Class.** No one is admitted to the Senior class except applicants who have accomplished the work of the Junior year as resident members of the Junior class in this University, or in some law school belonging to the Association of American Law Schools, and who apply at the beginning of the year. Members of the Senior class accomplishing the studies of the third year receive the degree of Bachelor of Laws. This degree admits the holder of it to the bar of the state of Missouri, on motion, without examination.

**Graduate Course.** A course of one year is maintained for graduates, who wish to continue their work for that period of time. All graduates accomplishing it receive the degree of Master of Laws.

**Special Class.** For admission to instruction as *special* students, the same moral qualifications are required which are prescribed for admission to the other classes, but if the applicant is twenty-one years of age, the qualification of high school attainments will not be required for his admission as a special student. Such special students will not be considered as candidates for graduation.

**Enrollment.** The enrollment in the Department of Law during the current year is 111 students. In the whole University nearly 1,700 have been enrolled.

**Academic Facilities.** The connection of the Law Department with the University enables the law student, without additional charge, to take instruction in other Departments. Some members of every class have found it convenient to pursue such studies as Latin, French, Logic, English, Political Economy, History, Stenography, Elocution, etc.

**Instruction.** The instruction is conducted by a corps of resident professors who devote their whole time to teaching, research, and writing. Non-resident lecturers instruct in various special subjects during the year. Each session opens on the second Tuesday of September and closes on the first Wednesday in June.

**Catalogue.** If this circular interests you, write for a catalogue of the University or of any department. The special announcement of the Law Department which contains full information for those intending to enter a law school will be sent on application to Irvin Switzler, Registrar of the University of Missouri, or John D. Lawson, Dean of the Law Department, Columbia, Missouri.



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BULLETIN OF THE UNIVERSITY OF MISSOURI

VOL. IV.

JUNE, 1903

NO. 6

DEPARTMENT OF MEDICINE



ENTRANCE TO THE NEW MEDICAL LABORATORIES

Published by the University of Missouri. Issued monthly. Entered April 12, 1902, at Columbia, Missouri, as second-class matter, under act of Congress of July 16, 1894.





LABORATORY OF EXPERIMENTAL PHYSIOLOGY



LABORATORY OF RELATIONAL ANATOMY



PARKER MEMORIAL HOSPITAL—THE DEAN'S OFFICE



PARKER MEMORIAL HOSPITAL.—THE SOUTH WARD.





PARKER MEMORIAL HOSPITAL AND BUSCH CLINIC.—FROM THE SOUTHEAST.



IN THE CLINIC



ENTRANCE TO CLINIC





LABORATORY OF HISTOLOGY



LABORATORY OF PATHOLOGY AND BACTERIOLOGY



PARKER MEMORIAL HOSPITAL



MEDICAL LABORATORIES.—FROM THE NORTHWEST



THE LIBRARY OF THE UNIVERSITY OF ILLINOIS

BULLETIN OF THE  
UNIVERSITY OF MISSOURI.

VOL. IV.

JULY, 1903.

NO. 7.

CIRCULAR OF INFORMATION.

**Historical Statement.**

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, which is now a beautiful town of 7,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad, and also on the Missouri, Kansas, and Texas. The cornerstone was laid 4 July, 1840, which is accepted as *foundation day*. The School of Mines, a Department of the University, was located at Rolla, Missouri, in 1870.

**Resources.**

Our buildings, grounds, books, and other equipment, are valued at more than \$1,550,000, not including the campus or the grounds for Botany, Horticulture, and Agriculture. The endowment (interest at 5 or 6 per cent), is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is \$38,150 a year. The Legislature makes appropriations biennially. There is some income from fees for libraries and laboratories. There are 47,427 acres of unsold land. A State Collateral Inheritance Tax yields about \$120,000 a year. The income of the whole University, from all sources and for all departments, in each of the years 1901 and 1902, was about \$425,000. It will not be less in 1903-4.

**Free Tuition. Expenses.**

Tuition is free in all Departments—Graduate, Academic, Department of Education, Medicine, College of Agriculture, Engineering, School of Mines. In all these Departments, except Law and Medicine, the only charges are a library fee of \$5 a session and small laboratory deposits covering the cost of materials used by the students. In Medicine the only charge is a library fee of \$10 a year and small laboratory deposits. In Law, the only charge is a library fee of \$10 a year. The expenses for room, board, books, and fees vary. For students that board in our club houses these expenses need not exceed \$140, nor more than \$200 a year for those that board in private families. The fees in some colleges and universities will bear all expenses here.

**Buildings.**

Three Dormitories, President's house, Academic Hall, Laboratory of Geology and Zoology, Chemical Laboratory Observatory, Power house, Engineering Hall, Engineering Laboratory, Mechanic Arts Hall, Agriculture



ral Hall, Dairy Laboratory, Live Stock Laboratory, Laboratory of Horticulture, Entomology and Botany, Greenhouse, Agricultural Farm buildings, Law building, Medical Laboratory, Hospital. Our School of Mines has seven buildings. Next year we may expend about \$200,000, for new buildings, including a separate Laboratory for Physics, a Gymnasium, and a Hospital for Animals.

### **Libraries.**

We have a library for general readers and several department libraries for advanced students. These libraries contain nearly 60,000 bound volumes. Moreover the collections of the State Historical Society, 21,000 volumes, in Academic Hall, are accessible to our students.

### **Laboratories and Museums.**

There are at Columbia museums of Archaeology, Art, Zoology, Geology, and Agriculture, many laboratories of science and technology, seven rooms for drawing and designing, and several shops. The School of Mines has several laboratories and drawing rooms and shops. Of the \$252,000 expended for new buildings in 1902, \$154,000 went for laboratory buildings. Nearly \$60,000 more was spent for their better equipment with apparatus. Thus about \$214,000 was invested last year in better facilities for our laboratory work.

### **Faculties.**

Our Faculties contain, all told, more than 120 teachers.

### **Women Admitted.**

All Departments are open to women. A suite of rooms in Academic Hall, comfortable, beautifully furnished, and strictly private, is reserved for their special use. These rooms are presided over by a matron. Read Hall, the new Dormitory for women, which will be open 1 September, will be in charge of the recently appointed Adviser of Women.

### **Requirements for Entrance.**

A good high school education, or its equivalent, and evidence of good character are demanded for admission to any department.

### **Religious Influences.**

Almost all denominations are represented at Columbia. The city is notable for the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the Young Women's Christian Association. There is a students' prayer meeting every week. Prayers by officers of the University also are held every morning. Attendance upon religious exercises is voluntary. A large number of students voluntarily attend Bible classes.

### **Debates and Athletic Sports.**

Our students have teams for foot ball, base ball, basket ball, track athletics, and lawn tennis. There is a gymnasium for men and another for women. The athletic field and the golf links are excellent. Much success has attended our contestants in inter-collegiate debates.

### **Enrollment.**

The students of the University come from almost every county in Missouri. Fifty-six states, territories, and foreign countries were represented here during the session of 1902-1903 by 1591 students.

## **Graduate Department.**

To graduate students instruction is offered in Latin, Greek, Classical Archæology, English, Germanic Languages, Romance Languages, History, Sociology, Economics, Political Science, Philosophy, Experimental Psychology, Pedagogy, Mathematics, Zoology, Botany, Chemistry, Geology, Physics, Physiology, Agriculture, Horticulture, Law, and Engineering (Civil, Electrical, Mechanical, Sanitary, Chemical, Hydraulic, and Mining). There are a number of Fellowships and Scholarships. Elective courses are offered leading to A. M., Ph. D., and to graduate degrees in Law and in Engineering.

## **College.**

Instruction is offered in English, Latin, Greek, Classical Archæology, History of Art, Freehand Drawing, Romance Languages, Germanic Languages, Elocution, Philosophy, Experimental Psychology, History, Economics, Political Science, Sociology, Pedagogy, Mathematics, Physics, Chemistry, Zoology, Botany, Physiology, Geology, and Astronomy. One undergraduate degree is conferred, requiring four years' work, Bachelor of Arts (A. B.). All work in the College is elective.

## **Department of Education.**

Upon the completion of certain courses the student receives a Life Certificate, entitling him to teach without examination in any public school in Missouri. All the advanced work in Education may be counted toward an Academic degree. The University is the only institution in Missouri, where, at once, a student may enjoy the range of college studies, get instruction in Pedagogy, and become expert in Shop Work, Sloyd, Mechanical Drawing, Freehand Drawing, Agriculture, Horticulture, and Household Economics. This Department, enlarged and reorganized, will be very effective next year.

## **Engineering.**

Courses are offered at Columbia leading to degrees in Civil, Electrical, Mechanical, Sanitary, Chemical, and Hydraulic Engineering. Mining Engineering and Metallurgy are taught at the School of Mines. Our facilities for instruction in Engineering have been greatly increased in recent years, and in 1902 about \$44,000 was invested at Columbia in buildings, books, and apparatus for Engineering and about \$92,000 at our School of Mines. In addition to this, we expended at Columbia \$8,000 for water works on the campus, \$5,000 for a refrigerating machine, and \$7,000 for additions to our heating and lighting plant. All these things were adapted, so far as possible, to experimental as well as to practical use. Thus in 1902, in the whole University, the sum of \$156,000 was invested in buildings, books, and instruments for Engineering and things auxiliary thereto.

## **Law.**

The course is three years long, leading to the degree of Bachelor of Laws. Our diploma admits to practice in all the courts of Missouri, both State and Federal. In addition to the Professors of History, Economics, Political Science, Sociology, etc., there are three Professors of Law who devote themselves to teaching, writing, and research, besides two Assistants and a large staff of non-resident lecturers. Our students are not taught by men wearied with practice in courts and in offices. No extra charge is made for any instruction that the student may

receive in any other Department. In 1902, \$7,000 was expended in additions to our law library.

**Medicine.** The course consists of four years of nine months each—thirty-six months. Our laboratories of Internal Medicine, Anatomy, Histology, Embryology, Pathology, Bacteriology, Hygiene, Physiology, Physiological Chemistry, Pharmacology, Chemistry, and Physics are in charge of men that devote themselves to teaching, writing, and research. No man can conduct one of these laboratories up to modern demand and practice medicine. Wherever the attempt is made, the laboratory work suffers. A large building for our medical laboratories was completed in 1903. There are animal rooms, aquaria, a mechanic's shop, research rooms, and a cold storage plant. The Parker Memorial Hospital, with its capacity of 40 beds, is on our campus. Here the sick receive medical attendance and nursing at moderate charges. In 1902 we spent nearly \$50,000 in making better provision for our Medical Department and to this end we shall spend other sums in 1903-4.

**College of Agriculture.** This College has well equipped laboratories for Agricultural Chemistry, Agronomy, Animal Husbandry, Veterinary Science, Dairy Husbandry, Botany, Entomology, and Horticulture. In each of these departments specialists devote their time to instruction and investigation. Five new teachers have been added this year, and about \$100,000 has been expended for buildings and equipment. The attendance in agriculture increased 30 per cent in 1902-1903. The Experiment Station, a department of the College, is devoted to research for the benefit of the farmers. Its investigations in Texas Fever, cattle feeding, injurious insects, fruit growing, and market gardening have already saved the farmers of Missouri vast sums of money.

**Mines and Metallurgy.** Our School of Mines and Metallurgy at Rolla is one of the best. It has been growing in buildings, equipment, teachers, and attendance. Courses are offered in Mining, in Metallurgy, etc. The special catalogue of this Department will be sent upon application to the Director, "Dr. George E. Ladd, Rolla, Mo." In 1902 about \$92,000 was spent in improvements at the School of Mines.

**Summer Session.** The Summer Session, intended primarily for high school teachers, began 1 June, and will extend to 28 August. Courses are given in Biology, Physics, Chemistry, English, French, German, Greek, History, Freehand Drawing, Latin, Mathematics, Psychology, Pedagogy, Sloyd, Agriculture, and Horticulture. If accredited here, the work is accepted by the State Superintendent of Public Schools. The fee is \$5. Special railroad rates. Enrollment last summer 407.

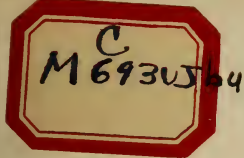
**Catalogue.** If this circular interests you, write for a catalogue of the whole University or of any Department. If, thinking seriously of attending the University, you wish to see plates of its buildings, these too will be sent you. Address the Registrar, "Mr. Irvin Switzler, Columbia, Missouri."

R. H. JESSE,

President.

1 July, 1903.





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# BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. IV.

AUGUST, 1903.

NO. 8.

## SCHOOL OF ENGINEERING.

### Historical Statement.

The University of Missouri was founded in 1840. The Department of Education was founded in 1867; that of Law, in 1872; and that of Medicine in 1873. The College of Agriculture and Mechanic Arts was established at Columbia, and the School of Mines at Rolla, in 1870. In 1877, a chair of Civil Engineering was established in the College of Agriculture and Mechanic Arts, and, later were added chairs of Electrical and Mechanical Engineering. Columbia, a beautiful city of 7,000 inhabitants, about midway between St. Louis and Kansas City, is on the Wabash and the Missouri, Kansas, and Texas Railroads.

### Resources.

Our buildings, grounds, books, and other equipment, are valued at more than \$1,550,000, not including the campus or the grounds for Botany, Horticulture, and Agriculture. The endowment (interest at 5 or 6 per cent) is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is \$38,150 a year. Moreover, the Legislature makes appropriations biennially. There is some income from fees for libraries and laboratories. There are 47,427 acres of unsold land. A State Collateral Inheritance Tax yields about \$120,000 a year. The income of the whole University, from all sources and for all departments, in each of the calendar years 1901 and 1902, was about \$425,000. It will not be less in 1903-4.

### Expenses. Free Tuition.

Tuition is free in all Departments—Graduate, Academic, Department of Education, Medicine, College of Agriculture, Engineering, School of Mines. In all these Departments, except Law and Medicine, the only charges are a library fee of \$5 a session and small laboratory deposits covering the cost of materials used by the students. In Medicine the only charge is a library fee of \$10 a year and small laboratory deposits. In Law, the only charge is a library fee of \$10 a year. The expenses for room, board, books, and fees vary. For Engineering students who board in our club houses these expen-



ses need not exceed \$140, nor more than \$200 a year for those who board in private families. The fees in some Colleges and Universities will bear all expenses here.

**Buildings.** Engineering Hall, Engineering Laboratory, Power-house, Mechanic Arts Hall, Observatory, Chemical Laboratory, Laboratory of Geology and Zoology, Academic Hall, Agricultural Hall, Dairy Laboratory, Live Stock Laboratory, Agricultural Barns, Laboratory of Horticulture Entomology and Botany, Greenhouse, Law Building, Medical Laboratory, Hospital, three Dormitories, President's House. Our School of Mines has seven buildings. Next year we may expend about \$200,000 for new buildings, including a separate Laboratory for Physics, a Gymnasium, and a Hospital for Animals.

**Laboratories.** There are at Columbia many laboratories of science and technology, seven rooms for drawing and designing, and several shops. The School of Mines has several laboratories and drawing rooms and shops. Of the \$252,000 expended for new buildings in 1902, \$154,000 went for laboratory buildings. Nearly \$60,000 more were spent for their better equipment with apparatus. Thus about \$214,000 were invested last year in better facilities for our laboratory work.

**Libraries.** We have a library for general readers and several department libraries for professors and advanced students. These libraries contain nearly 60,000 bound volumes. Moreover, the collections of the State Historical Society, 21,000 volumes, in Academic Hall, are accessible to our students.

**Faculties.** Our faculties contain, all told, more than 120 teachers. Twelve Professors, Assistant Professors, and Instructors give their entire time to mechanical drawing, shop work, civil, electrical, and mechanical engineering.

**Enrollment.** The students of the University come from almost every county in Missouri. Fifty-six states, territories, and foreign countries were represented here during the session of 1902-1903 by 1591 students. The enrollment at Columbia in Engineering has increased in five years from 66 to 230.

**Requirements for Entrance.** A good high school education, or its equivalent, and evidence of good character are demanded for admission to any department.

**Religious Influences.** Almost all denominations are represented at Columbia. The city is notable for its churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the Young Women's Christian Association. There is a students' prayer meeting every week. Prayers by officers of the University also are held every morning. Attendance upon religious exercises is voluntary. A large number of students voluntarily attend courses of Bible study.

**Debates and Athletic Sports.** Our students have teams for foot ball, base ball, basket ball, track athletics, and lawn tennis. There is a gymnasium for men and another for women. The athletic field and the golf links are excellent. Much success has attended our contestants in inter-collegiate debates. There are fourteen literary and scientific societies among the students, including a flourishing "Engineers' Club."

**Courses and Degrees.** Instruction is given in Civil, Electrical, Mechanical, Sanitary, Hydraulic, and Chemical Engineering. The degrees of Bachelor of Science in Civil, Electrical, Mechanical, and Chemical Engineering, and the graduate degrees of Civil, Electrical, and Mechanical Engineer are conferred.

**Civil Engineering.** Three courses are given: one in Civil Engineering, leading to broad, general training; a course in Sanitary Engineering, with less attention to structural and railway work and more to sanitary subjects; a course in Hydraulic Engineering, giving special attention to hydraulic and irrigation problems. The surveying instruments are new. They include 13 transits, 9 levels, 2 plane tables, 4 compasses, sextant, tapes, and small instruments, and for precise work, an 8-inch Fauth Theodolite, Brandis triangulation transit, precise level, base apparatus, etc. The laboratory has a brick abrasion machine, 2 torsion machines, 3 testing machines for tension and compression, Olsen and Fairbanks cement machines, briquette press and mixer, boilers for steam tests, Vicat and Gilmore needles, etc. For office work there are rolling and polar planimeters, a pantagraph, topographical protractors, stadia charts and slide rule, Thatcher calculating instrument, beam compass, etc. About 500 drawings of recent bridges, presented by Mr. T. J. Wilkerson (class of 1890) of Pittsburg, and a set of 130 drawings, carefully arranged, indexed, and presented by Mr. J. A. L. Waddell, illustrating recent practice in bridge design, are available for instruction.

**Electrical Engineering.** This course is arranged to give fundamental training in Electrical Engineering, with as much as possible of the practical applications. Thoroughness in English, Chemistry, Physics, and Mathematics is insisted upon. The strictly technical studies include Electrical Measurements, Electrical Machinery, Alternating Currents, Electrical Design, Transmission and Distribution, besides Surveying and studies in Mechanical Engineering. A branch section of the American Institute of Electrical Engineers has been established and discussion of current literature is a feature of the training. The equipment consists of some 30 dynamos for laboratory work in direct and alternating currents, including two double-current generators, which are used for a great variety of tests; of apparatus for standardizing instruments, and for electrical testing; and of storage batteries, ammeters, voltmeters, wattmeters, tachometers, resistances, lamp banks, etc.

## **Mechanical Engineering.**

This course prepares for any of the branches of Mechanical Engineering, giving a thorough foundation in the general principles and developing several important divisions. The study of engineering materials is applied to the designing of structures and machinery. The theory of machines is taught as well as the practical operation, in connection with the development, transference, and use of power. These principles are tested in the laboratory, which is equipped with various types of compound and simple engines, a two-stage-duplex air compressor, compound duplex steam pump, steam pumps, power pumps, pulsometers, injectors, condensers, steam turbine, gas, oil, and hot-air engines, water wheels, and the necessary meters, gauges, weirs, and tanks. The work in the laboratory is done by the students, who make all arrangements and tests of apparatus. The problems in laboratory and class room are taken from practice.

## **Mechanics.**

A department has been established for work in theoretical and applied Mechanics, formerly given by the Professor of Mechanical Engineering.

## **Drawing.**

Instruction is given in Mechanical Drawing, Descriptive Geometry, Lettering, and Machine Drawing. All engineering students are taught practical draughting room methods as well as the making of accurate and comprehensive drawings.

## **Shops.**

The joinery, forge, pattern, and machine shops contain 1600 square feet of floor space each, and accommodate sections of twenty-four students. The machine shop is equipped with engine-lathes, shapers, power saws, drill presses, planers, grinder, milling and screw machines. The underlying principles of production and erection are taught and also the limitations of materials and machines.

## **Other Departments.**

All courses in the University at Columbia, including the Academic and other departments, are open to engineering students, with the consent of the Dean.

## **Opportunities in Missouri.**

Missouri contains 69,415 square miles—nearly 3,000 more than New England. The population is 3,106,665. While the development of its resources has scarcely begun, Missouri is the fifth state in the Union in population, in wealth, and in agriculture, and the seventh in manufactures. For mining it is justly famous. It is a land of opportunity for enterprising young men. The best introduction to any state is through its university.

## **Catalogue.**

If this circular interests you, write for a catalogue of the whole University or of any Department. If, thinking seriously of attending this University, you wish to see plates illustrating its buildings, these too will be sent you. Address the Registrar, Mr. Irvin Switzler, Columbia, Missouri.

F. B. MUMFORD,  
Acting Dean.

1 August, 1903.



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BULLETIN OF THE UNIVERSITY OF MISSOURI

VOL. IV.

SEPTEMBER, 1903

NO. 9

COLLEGE OF AGRICULTURE



THE AGRICULTURAL COLLEGE—ON WEST SIDE OF CAMPUS





MECHANIC ARTS BUILDING AND POWER HOUSE



CHEMICAL LABORATORY



STUDENTS JUDGING CATTLE



VETERINARY CLINIC



HORTICULTURAL, BOTANICAL AND ENTOMOLOGICAL LABORATORIES



LABORATORY FOR ENTOMOLOGY



# BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. IV.

SEPTEMBER, 1903.

NO. 9.

## COLLEGE OF AGRICULTURE.

### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, now a beautiful city of 7,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash, and on the Missouri, Kansas, and Texas Railroads. The cornerstone was laid 4 July, 1840. The School of Mines and Metallurgy, a Department of the University, was located at Rolla, Missouri, in 1870.

### Resources.

The buildings, grounds, books, and other equipment of the University, are valued at \$1,550,000, not including the campus or the grounds for Agriculture, Horticulture, and Botany. The endowment (interest at 5 or 6 per cent) is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is \$38,150 a year. The Legislature makes appropriations biennially. There are 47,427 acres of unsold land. A Collateral Inheritance Tax goes to our support. The income of the whole University, from all sources and for all Departments, in each of the calendar years 1901 and 1902, was about \$425,000. It will not be less in 1903-4.

### Expenses. Free Tuition.

Tuition is free in all Departments—Graduate Department, College of Agriculture, Engineering, Academic, Department of Education, Medicine, School of Mines. In all these Departments, except Law and Medicine, the only charges are a library fee of \$5 a year and small laboratory deposits covering cost of materials used by the students. The Library fee is \$10 for Law, and for Medicine \$10 a year, with small laboratory deposits. The expenses for room, board, books, and fees vary. For agricultural students who board in our club houses, these expenses need not exceed \$140, nor more than \$200 a year for those who get the best board in private families. The fees in some colleges and universities will bear all expenses here.

### Buildings.

Agricultural Hall, Dairy Laboratory, Live Stock Laboratory, Agricultural Barns, Chemical Laboratory, Laboratory of Geology and Zoology, Laboratory of Horticulture, Entomology and Botany, Greenhouse, Mechanic Arts Hall, Engineering Hall, Engineering Laboratory, Power-house, Observatory, Academic Hall, Law building, Medical Laboratory,

Hospital, three Dormitories, President's house. Our School of Mines has seven buildings. Next year we may expend about \$200,000 for new buildings, including a Hospital for Animals, a separate Laboratory for Physics, and a Gymnasium.

**Faculties.** Our Faculties contain, all told, more than 120 teachers. Twenty-two men give their time to teaching and investigations in Agriculture, Agricultural chemistry, Animal Husbandry, Veterinary Surgery, Dairy Husbandry, Horticulture, Entomology, Botany, Shopwork, and Drawing.

**Libraries.** We have a library for general readers and several department libraries for professors and advanced students. These libraries contain nearly 60,000 bound volumes. Moreover the collections of the State Historical Society, 21,000 volumes, in Academic Hall, are accessible to our students. The Library is rich in publications pertaining to Agriculture, Agricultural Chemistry, Dairying, Veterinary Science, Horticulture, Entomology, and Botany.

**Laboratories and Museums.** There are at Columbia museums of Agriculture, Horticulture, and their products, of Geology, Zoology, Art, and Archaeology, many laboratories of science and technology, seven rooms for drawing and designing, and several shops. The School of Mines has several laboratories and drawing rooms and shops. Of the \$252,000 expended for new buildings in 1902, \$154,000 went for laboratory buildings. Nearly \$60,000 more was spent for their better equipment. Thus about \$214,000 was invested last year in better facilities for our laboratory work. There are good laboratories for Agronomy, Agricultural Chemistry, Live Stock Judging, Animal Breeding, Veterinary Science, Dairying, Horticulture Entomology and Botany. The shops are admirable. Instruction in Agronomy and Animal Husbandry is made efficient by the Experiment Station fields, the breeds of improved live stock, and the cattle feeding experiments. The students in Horticulture have the advantage of orchard plantings covering more than thirty acres of ground. The College Farm, comprising 615 acres, is used chiefly for instruction and for agricultural experiments. Here are the herds, the Barns, the Dairy Laboratory, the Live Stock Laboratory, and the work in Veterinary Science.

**Agronomy.** Special attention is given to the study of soils, their origin, formation, distribution, and the relations thereof to fertility. The improvement of soils, methods of crop production, the selection of seed, plant breeding, the cultivation, harvesting, and disposition of crops, are thoroughly considered. The course is supplemented by experiments and demonstrations on the Farm and the Experiment Station Grounds.

**Animal Husbandry.** Thorough courses in stock breeding and in the history and development of breeds are given during the Sophomore year, and in the Junior year a course in Feeds and Feeding. Specimens of leading breeds of live stock are maintained for purposes of study.

Experiments in feeding and breeding are continually in progress. Much attention is given to the judging of animals for the selection of the best types.

### **Veterinary Science.**

Veterinary Science here deals chiefly with the hygienic treatment of farm animals and the prevention of diseases, such as cholera, blackleg, glanders, tuberculosis, Texas Fever, etc. In the

Veterinary Clinics, students perform simple surgical operations.

### **Dairying.**

A thorough course is given in the handling of milk and butter and in the feeding and care of the dairy cow. In the laboratory the milk is tested,

the cream is separated, ripened, and made into butter, always under the careful supervision of the Professor.

### **Horticulture.**

The Horticultural Department has well-equipped laboratories and large experimental orchards, which make possible good instruction in commercial and farm orcharding. The best methods of planting, cultivating,

and pruning trees, and of marketing fruits are taught. Landscape gardening, the beautifying of home grounds, and floriculture are prescribed subjects in the Agricultural Course.

### **Entomology.**

Sufficient knowledge of systematic Entomology is given to prepare the student for identification of ordinary injurious insects. The insects which cause

damage to farm and garden crops, and methods of combating their ravages receive special attention.

### **Mechanics.**

Agricultural students get instruction in carpentry and blacksmithing in well-equipped shops, and this training is a valuable feature of the course.

### **Experiment Station.**

The investigations of our Experiment Station have already saved the farmers of Missouri vast sums of money. The results of investigations, published in bulletins, are sent free to all citizens of Missouri

that ask for them.

### **Short Winter Courses.**

Many persons already engaged in Agricultural pursuits desire a better preparation for their work, but they do not feel justified in spending four years to get this training. For such, we offer short

courses in Animal Husbandry, Plant Production, Dairying, and Horticulture. These courses begin about the first of January and continue eight weeks. The instruction is extremely practical and gives, in the time, the largest possible amount of technical instruction.

### **Agriculture in Public Schools.**

A number of teachers get instruction here in agriculture and horticulture every summer. At least 5,000 children in Missouri are learning this year these subjects because of the instruction given to

teachers here last summer. Our Department of Education, which is to be thoroughly re-organized, will henceforth work with the College



for introducing into the public schools agriculture and horticulture. In this work the University of Missouri has led the state and perhaps the federal union.

**Requirements  
for Entrance.**

A good high school education, or its equivalent, and evidence of good character are demanded for admission to any department.

**Religious  
Influences.**

Almost all denominations are represented at Columbia. The city is notable for its churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the

Young Women's Christian Association. There is a students' prayer meeting every week. Prayers by officers of the University also are held every morning. Attendance upon religious exercises is voluntary, but a large number of students attend courses of Bible studies.

**Debates and  
Athletic Sports.**

Our students have teams for foot ball, base ball, basket ball, track athletics, and lawn tennis. There is a gymnasium for men and another for women. The athletic field and the golf links are excellent. Much success has attended our contestants in inter-collegiate debates. Our students have formed a flourishing Agricultural Club and this has formed a Corngrowers' Association. The students have also a Botanical Society which works chiefly in applied botany and horticulture.

**Enrollment.**

The students of the University come from almost every county in Missouri. Fifty-six states, territories, and foreign countries were represented here during the session of 1902-1903 by 1591 students. The enrollment in Agriculture increased here 30 per cent last year.

**Women  
Admitted.**

All Departments are open to women. A suite of rooms in Academic Hall, comfortable, beautifully furnished, strictly private, and in charge of a Matron, is reserved for their special use. Read Hall, the new Dormitory for women, open 1 September, will be in charge of the recently appointed Adviser of Women.

**Opportunities  
in Missouri.**

Missouri contains 69,415 square miles—nearly 3,000 more than New England. The population is 3,106,665. While the development of its resources has scarcely begun, Missouri is the fifth state in the Union in population, in wealth, and in agriculture, and the seventh in manufactures. For mining it is justly famous. It is a land of opportunity for enterprising young men. The best introduction to any state is through its university.

**Catalogue.**

If this circular interests you, write for a catalogue of the whole University or of any Department. If, thinking seriously of entering the University, you wish to see plates of its buildings, these too will be sent you. Address the Registrar, "Mr. Irvin Switzler, Columbia, Missouri."

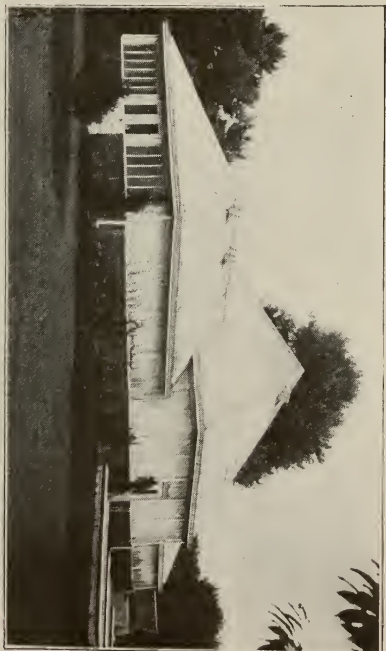
F. B. MUMFORD,

1 September, 1903.

Acting Dean.



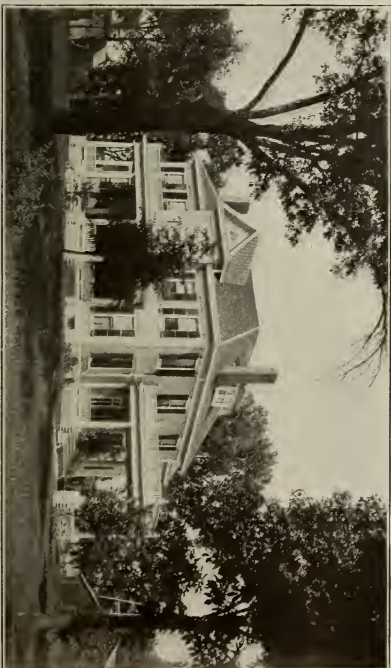
LIVE STOCK LABORATORY



GREENHOUSE



DAIRY LABORATORY



HOUSE OF THE DEAN OF THE AGRICULTURAL COLLEGE



AGRICULTURAL HALL

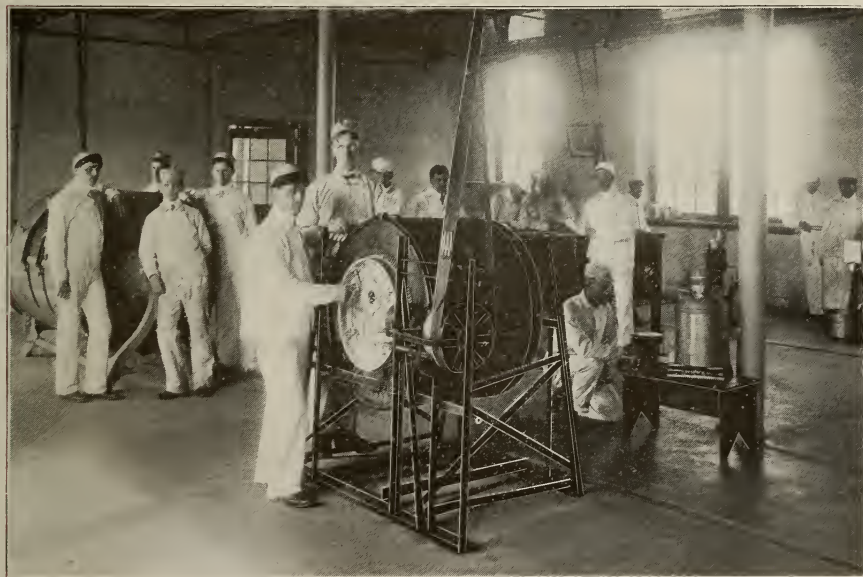


LABORATORY FOR AGRONOMY





DOMESTIC ECONOMY LABORATORY



DAIRY LABORATORY



AGRICULTURAL COLLEGE BARNS



THE HORTICULTURAL GROUNDS—LOOKING WEST



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HISTORICAL COLLECTION  
JUL 11 1903

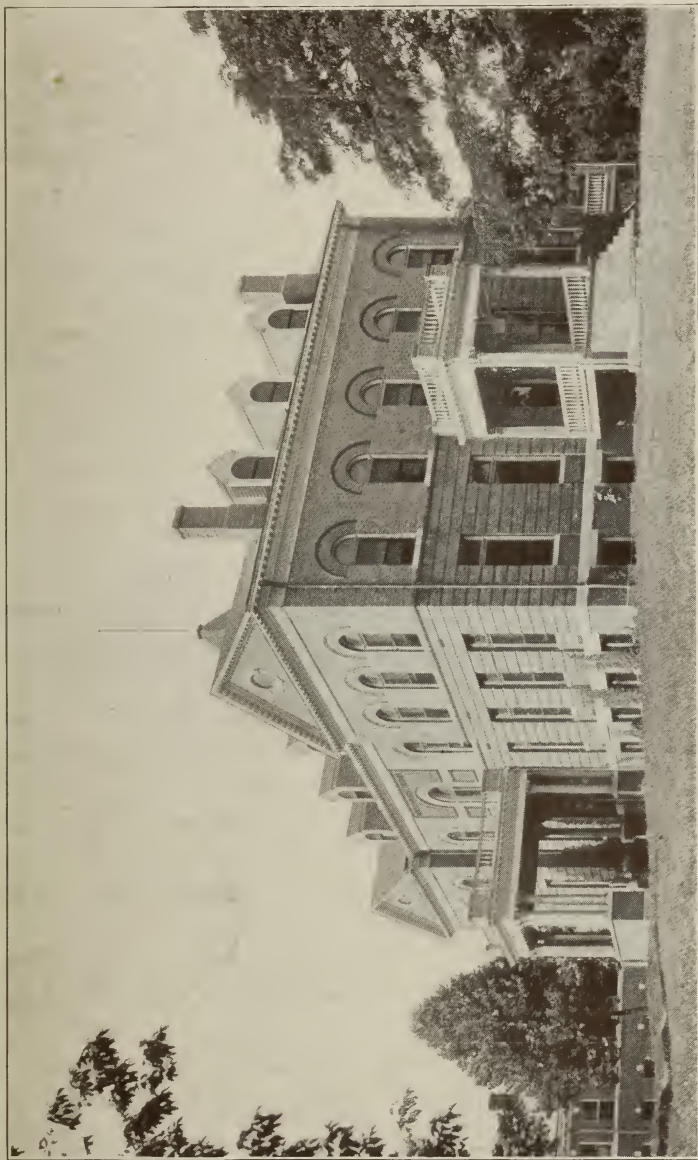
BULLETIN OF THE UNIVERSITY OF MISSOURI

VOL. IV,

NOVEMBER, 1903

No. 11

PARKER MEMORIAL HOSPITAL



EXTERNAL VIEW OF HOSPITAL.

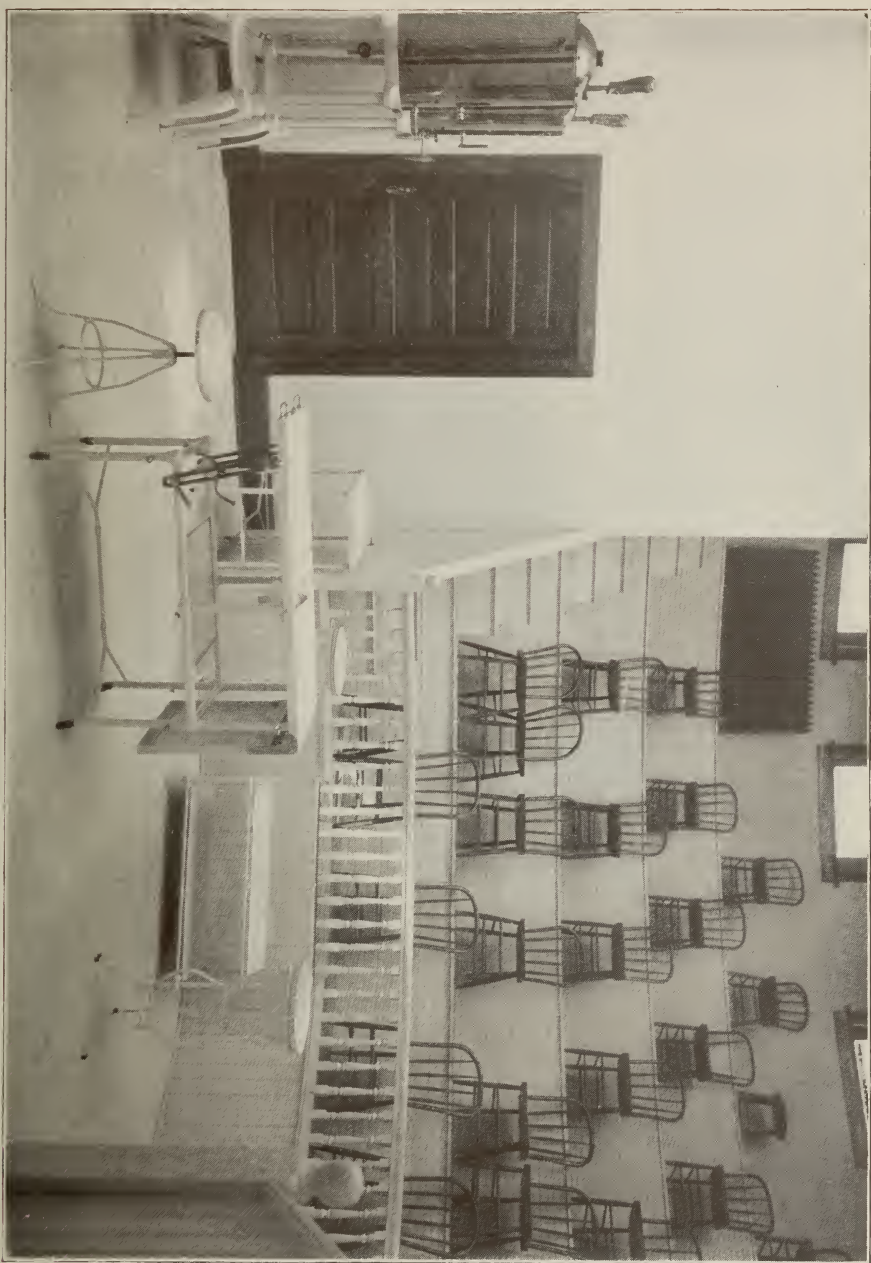




PREPARATION ROOM.



PHARMACY.



AMPHITHEATRE.



A NURSE'S ROOM.



EYE AND EAR CLINIC ROOM.



# BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. IV.

NOVEMBER, 1903.

NO. 11

## PARKER MEMORIAL HOSPITAL.

The Parker Memorial Hospital, situated at the west edge of the University campus, was erected in 1900 by money donated by William Lewis Parker of Columbia, and by appropriations made by the General Assembly of Missouri in 1900. It is a **State hospital**, under the control of the University and is open to the sick of Missouri.

The hospital has a capacity of fifty beds, is heated by steam, and is well lighted and ventilated. The Amphitheatre, built at a cost of \$8,500 given by Adolphus Busch of St. Louis, consists of a commodious Surgical Amphitheater, private operating room, and rooms provided with apparatus for the examination and treatment of diseases of the eye, ear, nose and throat and diseases of women. It includes also rooms equipped with modern apparatus for the preparation of surgical dressings and supplies.

The hospital is designed for the treatment of accidents and of acute, subacute, and chronic diseases. Persons suffering from contagious diseases will not be admitted.

One of the objects of the hospital is to furnish clinical instruction to the students of the Medical Department of the University of Missouri. Nothing is done, however, to offend the sensibilities of patients and their interest and welfare is sacredly conserved by those in charge of the hospital.

Patients may be admitted at any hour of the day or night. They should apply in person at the hospital, or make application in writing to the superintendent.

All patients entering the hospital come under the control of the hospital staff. **The family physician is most cordially admitted to consult with the hospital staff and to assist.**

The hospital has a chemical laboratory well equipped with reagents and apparatus for the chemical and microscopical examina-

tion of blood, urine, sputum, feces and stomach contents. The hospital is also in close affiliation with the pathological laboratory of the medical school where a thorough examination is made of all tissues removed at operations or for diagnostic purposes.

Connected with the hospital is a training school for nurses, in which a systematic course of training in nursing is given to young women. Those wishing to enter the training school may make application in person or by letter to the Superintendent of Nurses.

The rates of the hospital are as follows: General wards \$7.00 a week; single rooms \$15.00 a week. These charges include board, medicines and ordinary nursing. Operative cases are subject to an additional charge of \$5.00 for surgical dressings, etc. Operative cases receive special nursing for 24 hours after operation. Further special nursing if desired by the patient will be charged for at the rate of \$2.00 per day.

Patients requiring operations shall deposit beforehand sufficient money to cover expenses for the time they probably will have to remain in the hospital. Other patients shall deposit enough to cover expenses for one week. Any unused balance of the deposit will be refunded the patient when discharged.

A limited number of private patients will be received subject to the same hospital rules and rates as stated above. Fees must be arranged with the physician or surgeon, who must be a member of the hospital staff.

In connection with the hospital is a free dispensary for the treatment of outdoor patients. The hours for clinics are as follows:

Surgery, daily from 8:30 to 9:30 a. m.

Diseases of women, daily, from 9:30 to 10:30.

Internal medicine, daily from 10:30 to 11:30.

Diseases of eye, ear, nose and throat, Thursdays at 8:00 to 9:00 daily.

However full of patients the hospital may be the officers will always try to provide at the prices stated in this circular comfortable accommodations for the sick parents and other relatives of students attending the University; and the same zeal will be shown towards former students of the University and their families whenever they may stand in need of treatment at reasonable terms in a modern hospital.

# HOSPITAL STAFF.

Superintendent and Surgeon, A. W. McAlester, M. D.  
 Internal Medicine, Woodson Moss, M. D.  
 Ophthalmologist and Otologist, Guy L. Noyes, M. D.  
 Gynaecologist and Obstetrician, Max W. Meyer, M. D.  
 Assistant in Internal Medicine, W. J. Calvert, M. D.  
 Pathologist and Bacteriologist, Walter McNab Miller.  
 Resident Surgeon, Clarence A. Good, M. D.  
 Interne, Thornton E. Moore, M. D.

Superintendent of Training School for Nurses, Sophie L. Evans.

The following were admitted into the Parker Memorial Hospital from September 1, 1902, to October 1, 1903. This does not include patients treated in the outdoor departments of the hospital:

	No.	Cured.	Im- proved.	Unim- proved.	Died.	Not treated.
Abcess:						
Alveolar.....	1	1	..	..	..	..
Alveolar with recrossed bone.....	1	1	..	..	..	..
Ischio-rectal.....	2	2	..	..	..	..
Tubercular.....	3	2	1	..	..	..
Adenitis:						
Suppurative.....	2	2	..	..	..	..
Non-suppurative.....	1	1	..	..	..	..
Adiposis Universalis.....	1	..	..	..	..	1
Amputation of forearm.....	1	1	..	..	..	..
Asthma.....	1	..	1	..	..	..
Appendicitis.....	9	9	..	..	..	..
Apoplexy.....	1	..	..	..	1	..
Biliousness.....	2	2	..	..	..	..
Bronchitis.....	5	5	..	..	..	..
Carbuncle.....	1	1	..	..	..	..
Carcinoma:						
Of breast.....	2	2	..	..	..	..
Of caecum.....	1	..	..	..	1	..
Of liver.....	1	..	..	1	..	..
Of penis.....	1	1	..	..	..	..
Cataract, senile.....	3	2	1	..	..	..
Cerebral concussion.....	1	1	..	..	..	..
Circumcision.....	3	3	..	..	..	..
Colic, gall stone.....	1	1	..	..	..	..
Colitis, ulcerative.....	1	1	..	..	..	..
Confinement.....	3	3	..	..	..	..
Conjunctivitis, phlyctenular.....	1	1	..	..	..	..
Constipation, auto intoxication.....	3	3	..	..	..	..
Consumption.....	3	..	3	..	..	..
Cysts:						
Multilocular, beneath skin.....	1	1	..	..	..	..
Mammary.....	1	1	..	..	..	..
Ovarian infected.....	1	..	..	..	1	..
Ovarian malignant.....	1	..	..	..	1	..
Sebaceous.....	1	1	..	..	..	..
Cystitis.....	3	2	1	..	..	..
Debility, general.....	1	..	1	..	..	..
Dementia, senile.....	2	..	1	1	..	..
Ectopic gestation.....	1	1	..	..	..	..
Enchondroma, pelvic.....	1	1	..	..	..	..
Endometritis and Metritis.....	1	1	..	..	..	..
Endometritis and cervical laceration.....	2	2	..	..	..	..
Enterocolitis, chronic.....	2	..	2	..	..	..
Epididymitis, gonorrhoeal.....	1	..	1	..	..	..
Epilepsy.....	4	..	..	..	..	1
Fibroids of uterus.....	4	4	..	..	..	..
Fissure in ano.....	1	1	..	..	..	..

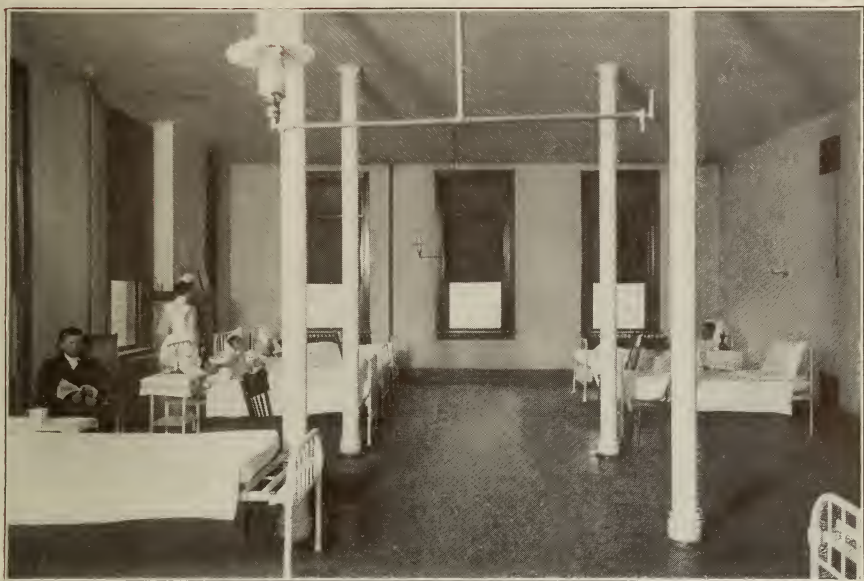


	No.	Cured.	Im- proved.	Unim- proved.	Died.	Not treated.
Fractures:						
Base of skull.....	1	1				
Compound of tibia and fibula.....	3	2			1	
Clavicle.....	1	1				
Frontal bone, depressed.....	1	1				
Hyoid bone.....	1	1				
Rib.....	1	1				
Tibia.....	1	1				
Vertebrae, 11th Dorsal.....	1			1		
Gastritis, chronic.....	2		2			
Gastro enteritis.....	2		2			
Gun shot wound of abdomen.....	1	1				
Haemorrhage, secondary turbinate operation.....	1	1				
Haemorrhoids.....	4	4				
Hare lip.....	1	1				
Hernia, inguinal strangulated.....	1	1				
Hypochondria.....	2		2			
Irido charoiditis.....	1		1			
Iritis.....	3	3				
Ingrowing toe nail.....	1	1				
Inversion of uterus.....	1	1				
Jaundice, acute catarrhal.....	2	2				
Keratitis.....	1	1				
La Grippe.....	4	4				
Locomotor ataxia.....	1			1		
Laryngitis, tubercular.....	1		1			
Lymphangitis.....	1	1				
Malarial fever.....	4	4				
Meningitis.....	1				1	
Mitral insufficiency.....	2		2			
Necrosed bone.....	2	2				
Neurasthenia.....	3		3			
Paraphimosis.....	1	1				
Peritonitis.....	1	1				
Perineal laceration.....	1	1				
Pharyngitis, acute.....	1	1				
Prostatic hypertrophy.....	2		1	1		
Prostatitis, chronic.....	2	1	1			
Pruritis vulvae.....	1		1			
Pterygium.....	1	1				
Retroflexion of uterus.....	2	2				
Rhinietis:						
Hypertrophic and removal of turbinate.....	4	4				
Atrophic, necrosed bone.....	1		1			
Sarcoma of uterus.....	1				1	
Sarcoma of eyeball.....	1		1			
Salpingitis and Oophoritis.....	3		3			
Strabismus.....	4	4				
Stricture, urethral.....	1	1				
Sprained wrist.....	1	1				
Synovitis, tubercular.....	1		1			
Tonsillitis.....	3	3				
Tuberculosis of hip.....	1	1				
Trachoma, chronic.....	5	3	2			
Typhoid fever.....	18	17			1	
Ulcer:						
Corneal.....	4	4				
Rodent of Vulva.....	1		1			
Varicose.....	1	1				
Scalp injury.....	1	1				
Urethritis, gonorrhoeal.....	4	3	1			
Varicocele.....	2	2				
Verical calculus.....	1	1				

For further information, apply to

THE SUPERINTENDENT,  
Parker Memorial Hospital,  
Columbia, Mo.

26 November, 1903.



MALE WARD.



LABORATORY OF INTERNAL MEDICINE.



LABORATORY OF PATHOLOGY.





FEMALE WARD.



PRIVATE ROOM.



PARKER MEMORIAL HOSPITAL AND BUSCH CLINIC.



MEDICAL LABORATORIES.

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JANUARY 1894

*BULLETIN OF THE*  
*UNIVERSITY OF MISSOURI.*

VOL. IV.

DECEMBER, 1903.

NO. 12

*Student Homes.*

"Home influence is not a passing but an abiding one;  
an all-powerful, for good or evil, for peace or  
strife, for happiness or misery."

—Anonymous.



READ HALL.



# Student Homes of the University of Missouri

FRED KELSEY, University Publisher.

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MATTER of deep concern to parents and of vital importance to the student about to enter college is the home he shall occupy during his college days. In this home the impressionable youth is brought into close contact with people and in spite of himself is influenced by them. The college graduate to-day is the result of the school itself and the home the student occupies while attending the school. Both the home and the school are important factors in determining this product. But when it is remembered that the student spends more than half his time in his college home and there forms intimate acquaintances, one sees how important it is in choosing a school to consider the home life that it offers its students. For parents upon whom rests the duty of educating sons and daughters and for prospective college students, knowledge of the homes offered to students is of much importance.

## HOMES FOR WOMEN.

Last September, Read Hall, the first dormitory for women at the University of Missouri, was opened.

Read Hall is situated one square from the University campus. The building is of Missouri stone in Tudor style of architecture. It will house twenty-eight students and has dining room capacity for thirty more. The first year a uniform price has been charged for all rooms. The expense of living in the Hall is five dollars a week. This pays for board, room, care of room, heat and light.



READ HALL DINING ROOM.

The rooms in Read Hall are single and in suites, and are furnished with single bed, chiffonier, washstand, study table and two chairs for each occupant. All else furnished by the students according to their taste or fancy.



A STUDENT'S ROOM IN READ HALL.

Read Hall is under the supervision of a head who is also Adviser of Women in the University. To a great extent the Hall is the social center for all the women of the University. Before many years, it is expected that more student-homes on the order of Read Hall will be built in Columbia.



READ HALL PARLOR AND LIVING ROOM.



Ever since their admission to the regular courses of study, the women students of the University have found comfortable homes with private families and attempt is now being made, in Mt. Holyoke House, to furnish a home similar to that of Read Hall, at a somewhat cheaper rate. Here the dining room is managed after the manner of a Club, and the total expense of living is about three dollars and fifty cents a week. Mt. Holyoke House is a private enterprise indorsed by the University.



MT. HOLYOKE HOUSE.

There are chapters of two National Women's Fraternities in the University: the Kappa Kappa Gamma and the Pi Beta Phi. Each of these fraternities has a chapter-house in which members of the Fraternity live. The cost of living in these homes is about the same as in Read Hall and does not exceed five dollars a week. Each house is in the care of a House Chaperon.



THE KAPPA KAPPA GAMMA HOME.

Ten young women live in the Kappa Kappa Gamma Home, and seven in that of the Pi Beta Phi.



THE PI BETA PHI HOME.

## HOMES FOR MEN.

The University of Missouri has two dormitories for men: Lathrop Hall and Benton Hall.



LATHROP HALL.

They were built by the State of Missouri at a cost of \$60,000. They afford rooms for about one hundred and twenty-five and will accommodate four hundred in the dining room.



BENTON HALL.



Both Halls are under the direct supervision of a Matron appointed by the University. But the real work of discipline and financial administration is in the hands of a Council and other officers elected by the student members. Order is enforced by a system of fines. The rate of assessment is determined by the Council. The collection and expenditure of the same are in the hands of a student appointed by the Matron and approved by the University and the students in the Halls. The assessment for meals during the regular session of the University has never been more than \$1.50 a week. The expenses for meals and room are from \$90 to \$110 for a term of forty weeks. Table board alone for the same length of time costs about \$75.



DINING ROOM IN LATHROP HALL—A SUNDAY DINNER.

About two hundred and twenty men are now boarding at the Halls. Of these one hundred and twenty-five have rooms in the buildings. These rooms are single or in suites. Each is furnished with a double bedstead or two single bedsteads, two chairs and a study table. The room shown in the picture costs each occupant \$28 for a term of forty weeks.



A STUDENT'S ROOM IN LATHROP HALL.



LATHROP HALL PARLORS

Of course many young men prefer a home with private families. These secure good accommodations at from \$3.50 to \$5.00 a week according to the conveniences desired and the distance of the home from the University.

Then, too, there are men's fraternity-houses—eight in all:

Sigma Chi,

Phi Gamma Delta,

Phi Delta Theta,

Kappa Alpha,

Kappa Sigma,

Sigma Alpha Epsilon,

Sigma Nu,

Beta Theta Pi.

In these homes the members secure good accommodations at from \$4.00 to \$5.00 a week. These organizations are secret. It is not considered proper to make application for membership but one must wait until he is invited to join. The present membership of the fraternities is about one hundred and sixty, one-half of whom have their homes in the chapter-houses. Halls, private houses and fraternity houses are the homes for both men and for women at the University of Missouri. The men's homes are under the supervision of a competent board of the University. The women's homes are supervised by the Adviser of Women. The rules adopted require that men and women shall not room at the same house; that neither shall room at a house not approved by the University; and that every boarding house for women shall have a reception room where young ladies shall receive callers. Any violation of these rules is promptly reported to parents and otherwise dealt with by the University Authorities as the particular circumstances may make advisable. Thus whether viewed from the standpoint of accommodations offered or from that of the supervision exercised, the University of Missouri has homes for men and for women as good as can be found in the Central West.





PHI DELTA THETA.



SIGMA NU.

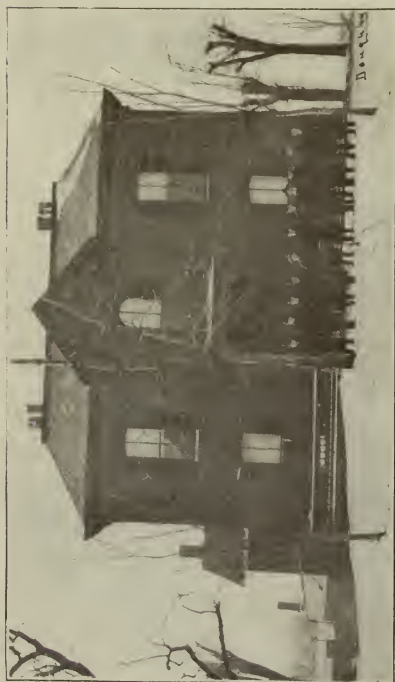


KAPPA SIGMA.

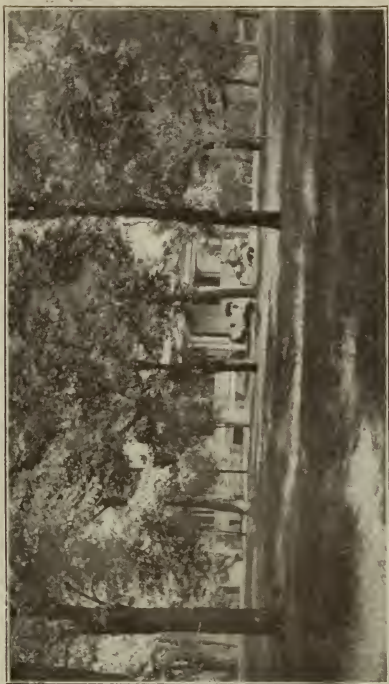


SIGMA CHI.

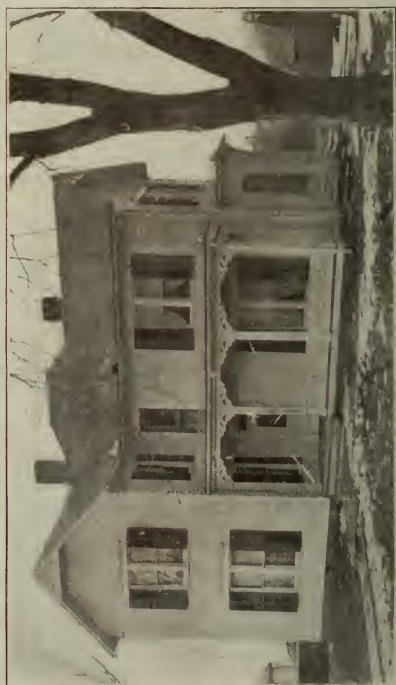
MEN'S FRATERNITY HOMES.



BETA THETA PI.



SIGMA ALPHA EPSILON.

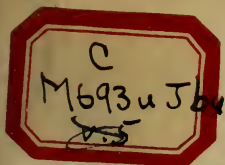


KAPPA ALPHA.



PHI GAMMA DELTA.

MEN'S FRATERNITY HOMES.



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UNIVERSITY OF ILLINOIS

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## BULLETIN OF THE UNIVERSITY OF MISSOURI.

VOL. V.

JANUARY, 1904.

NO. 1

### FORMER STUDENTS LIVING IN MISSOURI.

The number of students enrolled in the University in sixty-two years, adding those in one session to those in another and not deducting names counted more than once, is 27,741. The number of degrees conferred for work done is 3,009. The number of persons on whom these degrees have been conferred (two or more sometimes on the same person) is 2,536. Of honorary degrees 154 have been conferred.

For two years the University has been collecting information about its alumni and former students to the end that we may have correct records of these friends and may send to them information about the progress of their Alma Mater. At considerable expense, and with great labor, we have printed a list of our *graduates*, which we believe to be correct. The Alumni Recorder read carefully the record of the Board of Curators from the foundation of the University, and examined all the catalogues, that he might find out all the graduates. Nothing human is perfect, but we believe that this list is as accurate as it can be made with the means within our reach. If you desire a copy of this list, we will send it to you with pleasure.

We are now endeavoring to find the names and the addresses of all the former students of the University, whether graduates or not, that are living at this time in Missouri. We have made a list of them, arranged according to the counties in which they now live. We have begged our friends by hundreds to give us the names and addresses of all the former students of the University known to them as residents of Missouri. Many have responded with lists, but some have taken no notice of the request. It seems to us wise, therefore, to publish the list just as it is to-day, county by county, requesting our former students, for the sake of the University and for the credit of the counties



in which they are now living, to correct the list and to furnish us additional names. There is not, I believe, a county in Missouri which does not contain a number of our former students. Will you be kind enough upon receipt of this bulletin to send me immediately a list of all the former students of the University known to you and now *living in the county in which you reside?* Will you not be very careful to give me in every instance the initials, the name correctly spelled, and the postoffice address? When we once have an accurate list of all our former students now living in Missouri, we may make a list of former students living in other States. It surely is right for us, so far as possible, to keep track of our former students, and to let them know what progress the University is making.

If you want to know how the University has grown in the last 12 years, I can send you, if you request it, a short bulletin giving an astonishing amount of information. We have issued an interesting bulletin showing "What the University Has Done for Missouri." It shows that we are returning to the people of the State every year in money many times more than we receive per annum from the general revenue fund, and more still in what is better than money. If you would like to see this bulletin, and will write for it, I will send it to you with pleasure.

You will be interested to hear that the University is struggling hard to lift up to the highest—the life as well as the intellect of its students. The administration has no higher aim than to make the institution a stronghold of righteousness as well as of intellectuality. The righteousness to which I allude means zeal for doing what is right. You cannot lead students into higher life by discipline alone, but much can be done through wise leadership and brotherly kindness. Much can be accomplished if the President and members of the Faculty become thoroughly interested in the students as men and women. In a large institution of learning the administration should be willing to spend money for leading the students upwards socially and morally as well as intellectually. Because we are working earnestly in this direction, it must not be assumed that social and moral conditions here are not improving constantly. They have been growing steadily better in the last 12 years at least, but they never become in any place so good as to render further improvement impossible.

The University during the earlier years of my residence here was compelled, by fire and other disasters, to give its attention almost wholly to buildings, libraries, and laboratories, all of which pertain chiefly to intellectual life. If the students of that period did not seem to feel much attachment for their Alma Mater, the chief blame for this might perhaps justly be laid upon the University, although it should be said

in fairness that the policies of the years from 1891 to 1896 were largely determined by circumstances over which we had little control. We have changed radically our policies as circumstances have permitted us to change. The door seems to be opening wider and wider for higher policies in the future. We want to give our students now and hereafter abundant reason to love the University, and we want to find the students of the past who came here in sterner days to show them that their Alma Mater means to remember them constantly.

We have been aiming to make the University so fine in intellectual work as to provoke every alumnus to feel proud of his diploma. If I were to tell what success we have had in this respect, you would consider me boastful. Evidence is abundant to show that in the last 12 years no state university in the Mississippi Valley has gained reputation more rapidly throughout the country than our own, and especially among institutions of higher learning. In fact, our standing among the great universities of other states is higher than it is at home, because these institutions watch our growth with closer attention than people generally do in our own State.

## ALUMNI AND FORMER STUDENTS.

It is possible that some of the people whose names appear on this list never attended the University. Please help us to correct these errors also. Our lists should contain no names but those of former students. They should contain the names of all our former students now living in Missouri. There are probably not less than 10,000 of them. Please address all correspondence to me at Columbia, Missouri.

R. H. JESSE.

### Adair County.

Adams, Mattie B.....Kirksville  
 Alexander, Wallace .....Kirksville  
 Dinsmore, Gordon .....Kirksville  
 Dockery, Ethel Ardella ....Kirksville  
 Dockery, Leota L.....Kirksville  
 Gentry, B. P. ....Kirksville  
 Ginnings, R. M. ....Kirksville  
 Green, Mrs. Elmer .....Kirksville  
 Heyd, Frank .....Kirksville  
 Heyd, J. E. ....Kirksville  
 Hamilton, Emmet .....Kirksville  
 Imbler, Lewis .....Kirksville  
 Imbler, Thos. W. ....Kirksville  
 Kirk, Jno. R. ....Kirksville  
 Kirky, Robert L. ....Kirksville  
 Kirk, Todd .....Kirksville  
 Link, Miss Eunice V. ....Kirksville  
 McGuire, Ivie .....Kirksville  
 Motler, ———— .....Kirksville  
 Pickell, Mrs. Ralph M.....Kirksville  
 Pickell, Ralph M.....Kirksville  
 Ringo, Ethel S. ....Kirksville  
 Rieger, J. E. ....Kirksville  
 Six, Billie P. ....Kirksville  
 Smith, A. H. ....Kirksville  
 Weatherly, J. E. ....Kirksville

### Andrew County.

Breckenridge, Robert J. ....Savannah  
 Breit, P. C. ....Savannah  
 Booher, L. W. ....Savannah  
 Bryant, D. B. ....Savannah  
 Coffey, Harry .....Savannah  
 Cottrill, Clyde .....Savannah  
 Hoar, Harley .....Rea  
 Hoar, Hobson .....Rea  
 McCallan, Emma .....Bolckow  
 Selecman, Charles D. ....Savannah  
 Terhune, C. A. ....Savannah  
 Webster, Carl D. ....Savannah  
 Wood, W. Logan .....Bolckow

### Atchison County.

Bird, Dr. R. E. ....Rockport  
 Bird, Geo. ....Rockport  
 Browning, H. F. ....Fairfax  
 Buckham, Jno. ....Rockport  
 Gaede, Evelyn .....Fairfax  
 Hedgepath, Milan .....Rockport  
 Holloway, Will .....Rockport  
 Hopkins, N. O. ....Westboro

Hunter, Dr. Owen .....Fairfax  
 Littell, W. R. ....Tarkio  
 McCaleb, Rebecca I. ....Tarkio  
 Morgan, Henry W. ....Watson  
 Morgan, W. H. ....Rockport  
 Pierce, Lonnie J. ....Rockport  
 Schubert, Walter .....Rockport  
 Stafford, F. W. ....Tarkio  
 Stafford, Jno. ....Tarkio  
 Sutton, Gertrude R. ....Rockport  
 Trout, N. C. ....Tarkio  
 Thompson, Gertrude .....Tarkio  
 Wells, C. A. ....Phelps City

### Audrain County.

Alford, Clarence E. ....Vandalia  
 Anderson, Jno. L. ....Vandalia  
 Arnold, R. R. ....Mexico  
 Baker, J. T. ....Mexico  
 Baldwin, Carrie E. ....Mexico  
 Barnes, C. A. ....Mexico  
 Barth, Louis L. ....Mexico  
 Baskett, J. N. ....Mexico  
 Bassett, Jas. H. ....Mexico  
 Bassett, Jas. J. ....Mexico  
 Bickley, H. L. ....Mexico  
 Biekley, Ross .....Mexico  
 Bledsoe, C. C. ....Mexico  
 Botts, Lena .....Vandalia  
 Botts, W. W. ....Mexico  
 Bradley, Maggie W. ....Mexico  
 Burch, W. ....Ladsonia  
 Burney, R. H. ....Mexico  
 Bybee, Ethel M. ....Mexico  
 Clark, C. F. ....Mexico  
 Cross, A. Helen .....Mexico  
 Cullen, P. H. ....Mexico  
 Daniel, Chas. G. ....Vandalia  
 Daniel, Jas. W. ....Vandalia  
 Daniel, W. H. ....Vandalia  
 Deteine, Jno. ....Vandalia  
 Flynt, Dr. J. F. ....Molino  
 Fowles, ———— .....Mexico  
 Fox, Mitchell P. ....Skinner  
 Gamble, L. M. ....Mexico  
 Gatson, Ann E. ....Vandalia  
 Hancock, Archie R. ....Ladsonia  
 Hancock, Thomas R. ....Ladsonia  
 Hitt, Orlando .....Mexico  
 Irvine, Ernest .....Vandalia  
 Jesse, F. R. ....Mexico  
 Jesse, Lucy W. ....Mexico



Johnson, W. Clyde .....Vandalia  
 Kennan, Wm. H. ....Mexico  
 Kent, Oscar .....Mexico  
 Marlow, Roy S. ....Martinsburg  
 Mason, Roland .....Mexico  
 McCubbin, J. B. ....Ladonia  
 McCune, J. G. ....Vandalia  
 McIntire, Rolla .....Mexico  
 McPike, J. T. ....Vandalia  
 Nardin, G. F. ....Vandalia  
 Robnett, Margaret .....Martinsburg  
 Rudasill, Mary L. ....Hollensville  
 Rodgers, R. D. ....Mexico  
 Rose, Mrs. Crete .....Vandalia  
 Shannon, Easton A. ....Mt. Carmel  
 Tate, Ernest .....Mexico  
 Terrill, Dr. J. O. ....Vandalia  
 Toalson, Dr. G. F. ....Mexico  
 Turner, Dr. W. H. ....Mexico  
 Vannatta, E. E. ....Vandalia  
 Waters, E. C. ....Vandalia  
 Wilkinson, R. E. ....Mexico  
 Wright, Nannie .....Mexico

#### Barry County.

Alexander, T. ....Monett  
 Bayless, E. G. ....Cassville  
 Davis, J. S. ....Cassville  
 Fawver, C. C. ....Seligman  
 Lucky, M. C. ....Exeter  
 McMahan, M. ....Exeter  
 Roseberry, ———— Exeter  
 Steele, W. D. ....Cassville

#### Barton County.

Allee, Dr. G. D. ....Lamar  
 Brous, Bertrand C. ....Esrom  
 Cole, Dr. J. K. ....Lamar  
 Decker, Elizabeth .....Lamar  
 Fant, D. B. ....Lamar  
 Fogelson, Lena M. ....Lamar  
 Garrett, L. M. ....Lamar  
 Harkless, Mabel .....Lamar  
 Huggins, G. E. ....Lamar  
 Jones, Ed. R. ....Lamar  
 Lee, F. A. ....Lamar  
 Neet, Claude A. ....Golden City  
 Quirey, Rebecca .....Minden  
 Thurman, B. G. ....Lamar  
 Thurman, H. C. ....Lamar  
 Timmonds, H. W. ....Lamar  
 Turnbull, Blanche .....Lamar  
 Van Pool, S. N. ....Lamar  
 Wells, Dr. H. T. ....Lamar  
 Wells, Roy .....Lamar  
 Willis, T. L. ....Lamar

#### Bates County.

Barrow, A. ....Foster  
 Brundige, J. A. ....Adrian  
 Chastain, E. N. ....Hume  
 Cockerill, H. C. ....Rich Hill  
 Connelly, Julia .....Rich Hill  
 Corbin, Kate .....Hume

Cosby, Byron .....Butler  
 Dawson, W. B. ....Hume  
 Depee, Emma .....Butler  
 Geiger, H. V. ....Rich Hill  
 Graves, W. W. ....Butler  
 Grider, Fannie .....Vinton  
 Hackler, John M. ....Adrian  
 Harper, J. Edgar .....Butler  
 Harris, W. W. ....Rich Hill  
 Jeter, B. F. ....Butler  
 Johnson, R. E. ....Butler  
 Kaune, J. A. ....Butler  
 Mattingly, Emma .....Rich Hill  
 Philbrick, William .....Rich Hill  
 Rhodes, Dr. Herbert .....Foster  
 Slater, Florence .....Rich Hill  
 Smith, Jesse E. ....Butler  
 Thurman, J. P. ....Butler  
 Weeks, Julia .....Rich Hill  
 Weeks, Wm. ....Rich Hill  
 Wood, Clarence .....Hume

#### Benton County.

Antnett, Mrs. Ella D. Heath....Poplar  
 Benz, W. E. ....Warsaw  
 Brunjes, E. A. ....Warsaw  
 Clark, J. A. ....Warsaw  
 Fristoe, C. W. ....Palopinto  
 Fristoe, H. ....Palopinto  
 Huse, W. J. ....Warsaw  
 Lay, Florence .....Warsaw  
 Lay, H. P. ....Warsaw  
 Lingle, Emma .....Warsaw  
 Owen, T. C. ....Warsaw  
 Parks, T. F. ....Benton County  
 Reid, A. F. ....Benton County  
 White, Laura .....Warsaw

#### Bollinger County.

Caldwell, J. W. ....Marble Hill  
 Drum, E. L. ....Marble Hill  
 McKee, Herbert .....Zalma  
 Revelle, Chas. ....Marble Hill

#### Boone County.

Allen, Mary .....Columbia  
 Allen, Mary .....Columbia  
 Allen, Arch M. ....Columbia  
 Almstedt, H. B. ....Columbia  
 Ammerman, J. W. ....Columbia  
 Anderson, Ben. M. ....Columbia  
 Anderson, Estelle .....Columbia  
 Anderson, Mac .....Columbia  
 Anderson, William T. ....Columbia  
 Ankeney, Mrs. L. G. ....Columbia  
 Arnold, Charles, .....Ashland  
 Babb, J. G. ....Columbia  
 Babb, Mrs. J. G. ....Columbia  
 Baker, Beulah .....Columbia  
 Baker, Hugh .....Columbia  
 Baker, J. M. ....Columbia  
 Baker, Sam'l H. ....Columbia  
 Ballenger, J. W. ....Columbia  
 Ballenger, W. T. ....Columbia

Banks, H. H. ....	Columbia	Du Bois, C. C. ....	Columbia
Banks, J. S. ....	Columbia	Duncan, A. T. ....	Columbia
Banks, J. S. ....	Columbia	Duncan, F. A. ....	Columbia
Barnett, Mary J. ....	Columbia	Duncan, James H. ....	Columbia
Bass, Ev M. ....	Columbia	Draper, H. E. ....	Columbia
Beasley, G. H. ....	Columbia	Dyas, Virginia B. ....	Columbia
Belden, Dr. W. E. ....	Columbia	Edwards, Eliza Russell ....	Columbia
Belden, Mary M. ....	Columbia	Elkins, Hallie M. ....	Columbia
Belden, Mrs. H. M. ....	Columbia	Eitzen, Meta T. ....	Columbia
Biggs, E. E. ....	Ashland	Elwang, W. W. ....	Columbia
Blodgett, Franc M. ....	Columbia	Emberson, R. H. ....	Columbia
Blodgett, Gertrude ....	Columbia	Fellows, John N. ....	Columbia
Botts, Bennie ....	Columbia	Fewsmith, Joy ....	Columbia
Botts, Lida ....	Columbia	Ficklin, Mrs. Ella C. ....	Columbia
Bowling, C. B. ....	Columbia	Ficklin, T. A. ....	Columbia
Bragg, Mrs. Harry ....	Columbia	Fine, Martha ....	Columbia
Branham, Madeline ....	Columbia	Fisher, Dr. J. M. ....	Columbia
Branham, Mrs. J. S. ....	Columbia	Fisher, Julia G. ....	Columbia
Broadhead, G. C. Jr. ....	Columbia	Fisher, Mary M. ....	Columbia
Broadhead, H. H. ....	Columbia	Fitch, Mary ....	Columbia
Burroughs, G. W. ....	Columbia	Fitch, Ruby ....	Columbia
Burruss, Marion ....	Columbia	Fleming, Adelle ....	Columbia
Bush, Estell ....	Columbia	Fleming, Marie ....	Columbia
Bush, Roy ....	Columbia	Flood, Sallie ....	Columbia
Calvert, Mrs. Sidney ....	Columbia	Fountain, James R. ....	Columbia
Calvin, E. M. ....	Huntsdale	Furtney, C. W. ....	Columbia
Campbell, Laura B. ....	Columbia	Fyfer, J. Kirk ....	Centralia
Carter, Aura S. ....	Columbia	Garth, Mrs. W. W. ....	Columbia
Cauthorn, Bessie ....	Columbia	Garth, W. W. ....	Columbia
Cauthorn, E. B. ....	Columbia	Gentry, Mrs. N. T. ....	Columbia
Cauthorn, Emma ....	Columbia	Gentry, N. T. ....	Columbia
Cauthorn, Louise ....	Columbia	Gerig, Ed. ....	Columbia
Cauthorn, W. B. ....	Columbia	Gerig, Rosalie ....	Columbia
Chandler, Mrs. J. S. ....	Columbia	Gillaspie, Dr. W. A. ....	Columbia
Clarkson, Jno. S. ....	Columbia	Graham, Dr. R. E. ....	Columbia
Clinkscales, E. C. ....	Columbia	Graves, Bettie M. ....	Woodlandville
Cochel, Lottie ....	Columbia	Graves, P. W. ....	Woodlandville
Cochel, Mary ....	Columbia	Gray, Laura ....	Columbia
Cochel, Robt. ....	Columbia	Gray, Mary ....	Columbia
Cochel, W. A. ....	Columbia	Gray, Nellie ....	Columbia
Cole, James B. ....	Columbia	Griffith, Florence ....	Columbia
Cole, Redmond S. ....	Columbia	Grubbs, Dr. J. O. ....	Deer Park
Collins, E. A. ....	Columbia	Gordon, C. H. ....	Columbia
Conley, M. R. ....	Columbia	Gordon, Dr. James ....	Columbia
Conley, Mrs. S. F. ....	Columbia	Gordon, S. D. ....	Columbia
Conley, S. F. ....	Columbia	Gordon, Webster ....	Columbia
Connaway, Dr. Jno. W. ....	Columbia	Gordon, Wellington ....	Columbia
Connoway, Mrs. E. ....	Columbia	Guitar, Emily ....	Columbia
Connoway, Mrs. John ....	Columbia	Guitar, Jas. H. ....	Columbia
Cook, Stella ....	Centralia	Guitar, O. ....	Columbia
Conway, Julia ....	Columbia	Guitar, Wm. ....	Columbia
Corlew, Dr. J. L. ....	Columbia	Guthrie, Dr. C. C. ....	Columbia
Cowherd, Clyde E. ....	Columbia	Guthrie, Fannie V. ....	Columbia
Crouch, Clarence C. ....	Columbia	Guthrie, Lula ....	Columbia
Crumbaugh, J. E. ....	Columbia	Haggard, Cinnie ....	Columbia
Crumbaugh, Neil ....	Columbia	Haggard, Price ....	Columbia
Daniels, F. P. ....	Columbia	Harris, F. G. ....	Columbia
Dashiell, Laura ....	Columbia	Harshe, Robt. B. ....	Columbia
Davis, Chas. B. ....	Columbia	Hatton, Claudia M. ....	Columbia
Dearing, Milton M. ....	Columbia	Heibel, Grace M. ....	Columbia
Defoe, Mrs. C. E. ....	Columbia	Hickman, T. B. ....	Columbia
Defoe, L. M. ....	Columbia	Hickman, T. B. Jr. ....	Columbia
Dobson, Gilbert ....	Columbia	Hinton, E. W. ....	Columbia
Douglass, Dr. W. H. ....	Columbia	Hinton, Mrs. E. W. ....	Columbia

Hockaday, I. O., Jr. ....	Columbia	Murry, H. D. ....	Columbia
Hodge, Mrs. R. J. ....	Columbia	Murry, J. H. ....	Columbia
Hodge, Mrs. R. T. ....	Columbia	Myer, Dr. Max W. ....	Columbia
Hoffman, B. F. ....	Columbia	Niedermeyer, F. W. ....	Columbia
Hopper, Dr. R. L. ....	Columbia	Nifong, W. R. ....	Columbia
Horton, Rev. H. M. ....	Columbia	Norris, Dr. W. A. ....	Columbia
Howard, Ida E. ....	Columbia	Norvell, Fannie R. ....	Columbia
Howard, W. L. ....	Columbia	Nowell, Fannie ....	Columbia
Hubbell, F. D. ....	Columbia	Oliver, William I. ....	Browns Station
Hubbell, Jno. ....	Columbia	Oliver, W. I. ....	Columbia
Hudson, Ethel ....	Columbia	O'Mahoney, Clarence ....	Columbia
Hulett, Ollene G. ....	Hallsville	O'Mahoney, Lafayette ....	Columbia
Hultz, E. M. ....	Columbia	O'Rear, M. A. ....	Columbia
Hultz, M. E. ....	Columbia	Organ, Minnie K. ....	Columbia
Hume, Dr. Chas. ....	Columbia	Palmer, Chas. P. ....	Sturgeon
Jackson, Dr. C. M. ....	Columbia	Pasley, Rev. A. W. ....	Columbia
Jesse, Carrie ....	Columbia	Patterson, Edwin S. ....	Centralia
Jesse, Mary ....	Columbia	Payne, Susan L. ....	Ashland
Jesse, Mrs. R. H. ....	Columbia	Peeler, W. B. ....	Columbia
Jesse, R. H. Jr. ....	Columbia	Penter, Eli ....	Ashland
Johnson, Bess C. ....	Columbia	Pierce, Sallie ....	Columbia
Johnston, Eva ....	Columbia	Poor, Gail ....	Columbia
Jones, Mrs. J. C. ....	Columbia	Potter, Maud ....	Columbia
Kahn, Gussie ....	Columbia	Potter, Peter B. ....	Columbia
Kahn, Thekla ....	Columbia	Prather, Lucile W. ....	Columbia
Keene, W. A. ....	Columbia	Pratt, Will ....	Columbia
Kneisley, Sallie R. ....	Columbia	Pratt, W. S. ....	Columbia
Kurtz, D. W. B., Sr. ....	Columbia	Price, R. B. ....	Columbia
Lake, A. S. ....	Columbia	Price, R. B., Jr. ....	Columbia
Lake, Joberry ....	Columbia	Pulliam, Susie ....	Columbia
Lewis, Dr. M. D. ....	Columbia	Raybourn, Sara B. ....	Centralia
Lhamon, Ruskin ....	Columbia	Raybourn, Susie M. ....	Centralia
Lipscomb, James ....	Columbia	Read, Ella M. ....	Columbia
Lipscomb, Millard ....	Columbia	Records, Thomas ....	Columbia
Lipscomb, Virginia ....	Columbia	Riggs, Inez ....	Columbia
Loeb, Isador ....	Columbia	Rodhouse, Mrs. T. J. ....	Columbia
Long, C. M. ....	Columbia	Rodhouse, Thos. J. ....	Columbia
Macfarlane, Mrs. Alice O. ....	Columbia	Rollins, C. B. ....	Columbia
Marbut, C. F. ....	Columbia	Rollins, Clarkson ....	Columbia
Mason, Alicia T. ....	Columbia	Rollins, E. T. ....	Columbia
McAlester, Dr. A. W. ....	Columbia	Rollins, F. B. ....	Columbia
McAlester, A. W. Jr. ....	Columbia	Rollins, Frank ....	Columbia
McBaine, J. P. ....	Columbia	Rollins, G. B. ....	Columbia
McBaine, Richard H. ....	Columbia	Rothwell, W. H. ....	Columbia
McBaine, Turner ....	Columbia	Rouse, Birdie L. ....	Browns Station
McConathy, Bessie N. ....	Columbia	Ruenzi, Wilhametta ....	Columbia
McGlothlin, Mary ....	Columbia	Russell, Mrs. F. E. ....	Columbia
McGuire, Rev. J. M. ....	Columbia	Sames, C. F. ....	Centralia
McHarg, Tillie ....	Columbia	Schwabe, J. W. ....	Columbia
Meyer, Dr. M. W. ....	Columbia	Schwabe, Mrs. J. W. ....	Columbia
Mikel, Dr. Henry ....	Columbia	Schwabe, Rachel L. ....	Columbia
Miller, Dr. J. A. ....	Columbia	Sebastian, C. B. ....	Columbia
Miller, Mrs. C. B. ....	Columbia	Sellinger, Jacob ....	Columbia
Mitchell, E. L. ....	Columbia	Shaefer, Dr. Harry ....	Columbia
Montgomery, Helen ....	Columbia	Shaefer, Dr. W. R. ....	Columbia
Montgomery, Maud E. ....	Columbia	Shaw, R. A. ....	Columbia
Moore, Mrs. W. T. ....	Columbia	Sinclair, Margaret ....	Columbia
Morehead, Geo. L. ....	Columbia	Smith, Dr. Sidney J. ....	Columbia
Morehead, Lucy O. ....	Columbia	Smith, Dr. Stanley ....	Columbia
Morris, Lena ....	Columbia	Smith, Mrs. Stanley ....	Columbia
Moss, D. D. ....	Columbia	Smith, Dr. W. R. ....	Ashland
Moss, Dr. W. ....	Columbia	Smoot, Miss I. ....	Columbia
Moss, Jas. S. ....	Columbia	St. Clair, Mrs. Luella W. ....	Columbia
Moss, Robert F. ....	Columbia	Steele, Asa G. ....	Columbia



Steele, Eva .....Columbia  
 Steele, Stella E. ....Columbia  
 Stephens, E. W. ....Columbia  
 Stephens, J. L. ....Columbia  
 Stephens, J. L. Jr. ....Columbia  
 Stone, Ira G. ....Columbia  
 Stone, Sue M. ....Columbia  
 Strong, C. M. ....Columbia  
 Switzler, Irvin ....Columbia  
 Switzler, Lewis M. ....Columbia  
 Switzler, Mrs. I. ....Columbia  
 Thompson, Mrs. L. E. ....Columbia  
 Thornton, Dr. J. E. ....Columbia  
 Tilley, Dr. R. B. ....Columbia  
 Tipton, Judson M. ....Columbia  
 Todd, Tete .....Columbia  
 Torbitt, Mrs. Nat .....Columbia  
 Turner, Squire .....Columbia  
 Trimble, Margaret .....Columbia  
 Tuttle, Floyd .....Columbia  
 Vaughan, E. V. ....Columbia  
 Walker, Mary .....Columbia  
 Waters, Henry J. ....Columbia  
 Watson, M. C. ....Riggs  
 Welch, J. W. ....Columbia  
 Wharton, James L. ....Columbia  
 Whitmer, Mrs. H. C. ....Columbia  
 Whitten, J. C. ....Columbia  
 Whitten, Mrs. J. C. ....Columbia  
 Wilcox, David B. ....Ashland  
 Willis, Evelyn .....Columbia  
 Willis, Florence .....Columbia  
 Willis, John S. ....Columbia  
 Willis, Mrs. Emma P. ....Columbia  
 Willis, Snowdon B. ....Columbia  
 Williams, Mrs. Walter ....Columbia  
 Williams, W. S. ....Columbia  
 Winders, Rev. C. H. ....Columbia  
 Wolff, Lucy H. ....Columbia  
 Wood, Oval A. ....Harrisburg  
 Woodward, Tom E. ....Columbia  
 Wright, J. K. ....Columbia  
 Wright, Jos. P. ....Columbia

#### Buchanan County.

Allen, T. B. ....St. Joseph  
 Amick, Wm. K. ....St. Joseph  
 Barnes, A. L. ....St. Joseph  
 Barr, Guy .....St. Joseph  
 Bauer, Milton J. ....St. Joseph  
 Blunk, J. P. ....St. Joseph  
 Boyer, J. ....St. Joseph  
 Bretz, W. S. ....Frazer  
 Brown, Henry .....Faucett  
 Brown, R. A. ....St. Joseph  
 Buis, C. L. ....St. Joseph  
 Burgess, C. ....St. Joseph  
 Connett, John .....St. Joseph  
 Croson, Mrs. O. E. ....St. Joseph  
 Dailey, A. F. ....St. Joseph  
 Eastin, G. W. ....St. Joseph  
 Ellif, J. D. ....St. Joseph  
 Ferrell, C. C. ....St. Joseph  
 Ferrell, Hattie .....St. Joseph

Gabbert, L. C. ....St. Joseph  
 Gibson, W. A. ....Platte River  
 Gray, Ben F. ....Frazer  
 Harmon, B. R. ....De Kalb  
 Harmon, O. S. ....De Kalb  
 Jennings, ————St. Joseph  
 Johns, Charles .....St. Joseph  
 Kellar, Charles F. ....St. Joseph  
 Kelley, D. B. ....St. Joseph  
 Lamer, Beulah .....Easton  
 Lohr, Tillie .....St. Joseph  
 McNeely, John .....St. Joseph  
 Meyers, Robert S. ....St. Joseph  
 Meyer, W. S. ....St. Joseph  
 Michelson, L. A. ....St. Joseph  
 Miller, Hattie .....St. Joseph  
 Miller, Maude .....St. Joseph  
 Miller, Olga .....St. Joseph  
 Mitchell, Orestes .....St. Joseph  
 Moore, John .....Frazer  
 Moore, W. H. ....Faucett  
 Mosman, B. N. ....St. Joseph  
 Nesbitt, Florence .....St. Joseph  
 Nesbitt, Pleasant P. ....St. Joseph  
 Owsley, H. F. ....Agency  
 Peterman, H. F. ....St. Joseph  
 Potter, Bassie .....St. Joseph  
 Potter, Ena W. ....St. Joseph  
 Ramey, H. M. ....St. Joseph  
 Reynolds, J. J. ....Agency  
 Shaw, R. A. ....St. Joseph  
 Sherwood, W. E. ....St. Joseph  
 Shull, A. P. ....St. Joseph  
 Shull, Rena M. ....Platte River  
 Shull, S. S. ....St. Joseph  
 Shultz, O. E. ....St. Joseph  
 Silverman, Eugene .....St. Joseph  
 Simmons, J. M. ....St. Joseph  
 Spencer, O. M. ....St. Joseph  
 Spencer, R. L. ....St. Joseph  
 Stamper, Austin .....Garretsburg  
 Stamper, J. A. ....Saxton  
 Strop, C. F. ....St. Joseph  
 Utz, Molly .....St. Joseph  
 Utz, Wm. H. ....St. Joseph  
 Zwick, G. L. ....St. Joseph

#### Butler County.

Bullivant, Francis J. ....Poplar Bluff  
 Craig, J. E. ....Poplar Bluff  
 Davidson, Hattie .....Poplar Bluff  
 Kell, Charles L. ....Poplar Bluff  
 Kennedy, Terrence O. ....Poplar Bluff  
 Kinyon, Mrs. Mary I. ....Poplar Bluff  
 Macon, John .....Poplar Bluff  
 Withers, John Thomas....Poplar Bluff  
 Wright, Charles .....Poplar Bluff

#### Caldwell County.

Adams, D. E. ....Braymer  
 Carr, Dr. B. F. ....Polo  
 Conley, John Winfield....Hamilton  
 Crockett, Nellie .....Hamilton  
 Doll, Ernest .....Hamilton

Frost, S. D. ....Mirabile  
 Gay, Sarah .....Hamilton  
 George, Bertha .....Hamilton  
 Hardman, S. B. ....Polo  
 Hendricks, S. ....Polo  
 Henkins, J. A. ....Gouldfarm  
 Holman, W. C. ....Hamilton  
 Johnson, C. C. ....Hamilton  
 Johnson, Grace G. ....Hamilton  
 Jones, Dr. C. K. ....Kingston  
 Jones, Q. ....Kingston  
 Kautz, Otis James .....Hamilton  
 Klepper, F. B. ....Kingston  
 Parmen, H. ....Kidder  
 Plumb, Harvey M. ....Kidder  
 Rathbun, James .....Braymer  
 Reavis, G. W. ....Hamilton  
 Rogers, Lalla Rookh.....Kingston  
 Rogers, S. C. ....Kingston  
 Smith, Thomas B. ....Polo  
 Switzer, Amos .....Kingston  
 Theilmann, L. ....Breckenridge  
 Thompson, F. F. ....Polo  
 Tool, F. ....Hamilton  
 Van Not, Charles .....Hamilton  
 Woolsey, Calvin Lee .....Braymer  
 Zumbrunnen, Emile M.....Braymer

#### Callaway County.

Burnham, Rev. W. N.....Fulton  
 Covington, Linnie .....Shamrock  
 Craig, J. Doc. ....Fulton  
 Divers, W. P. ....Auxvasse  
 Emmons, William .....Guthrie  
 Finley, A. ....Fulton  
 Harris, D. H. ....Fulton  
 Harris, Homer A. ....Tebbetts  
 Hughes, David .....Tebbetts  
 Humphreys, J. C. ....Fulton  
 Jones, N. E. ....Auxvasse  
 McCall, E. L. ....Fulton  
 Perry, Etta P. ....Shamrock  
 Perry, Georgia A. ....Shamrock  
 Tincher, J. W. ....Fulton  
 Young, Dr. D. H. ....Fulton

#### Camden County.

Carter, E. M. ....Linnecreek  
 King, Ray .....Linnecreek  
 Moss, J. R. ....Linnecreek

#### Cape Girardeau County.

Albert, H. ....Cape Girardeau  
 Alexander, O. ....Fruitland  
 Bohn, R. ....Cape Girardeau  
 Buren, J. W. ....Cape Girardeau  
 Byrd, R. ....Jackson  
 Daugherty, B. A. ....Jackson  
 Dearmont, W. S. ....Cape Girardeau  
 Deneke, S. F. ....Houck  
 Fry, Leslie .....Cape Girardeau  
 Fry, L. M. ....Cape Girardeau  
 Groves, Andrew W. ....Allenville  
 Hays, Dr. B. W. ....Gordonville

Hays, W. Henry .....Jackson  
 Houck, G. ....Cape Girardeau  
 Jenkins, T. H. ....Oak Ridge  
 Moore, Henry S. ....Cape Girardeau  
 Miller, W. H. ....Jackson  
 Oliver, C. C. ....Leemon  
 Oliver, R. B. ....Cape Girardeau  
 Oliver, R. B. Jr.....Cape Girardeau  
 Roberts, W. J. ....Oak Ridge  
 Snider, J. A. ....Jackson  
 Snider, J. C. ....Millerville  
 Tacke, Franklin .....Arnsberg  
 Vinyard, Alice .....Jackson  
 Wilson, J. D. ....Cape Girardeau  
 Wilson, J. W. D.....Cape Girardeau

#### Carroll County.

Adams, T. B. ....Norborne  
 Belcher, G. ....Carrollton  
 Belcher, Mrs. George .....Carrollton  
 Benson, W. ....Carrollton  
 Boman, John S. ....Norborne  
 Bowdry, Ruth M. ....Carrollton  
 Brown, Robert .....Carrollton  
 Busby, William G. ....Carrollton  
 Bush, A. C. ....Norborne  
 Cook, Dr. R. F. ....Carrollton  
 Dunlop, D. T. ....Carrollton  
 Franken, W. A. ....Norborne  
 Gregory, Robert .....Wakenda  
 Kenton, J. W. ....Norborne  
 Marlowe, Thomas N. ....Norborne  
 Moore, Mrs. M. H. ....Carrollton  
 Moore, Olin .....Carrollton  
 Moore, Rev. M. H.....Carrollton  
 Nickell, Joseph .....Wakenda  
 Thomas, Florence E. ....Miami Station

#### Carter County.

Builtelman, H. G. ....Grandin  
 McGhee, Alma M. ....Grandin  
 Sheets, M. M. ....Van Buren

#### Cass County.

Boardman, Emma .....Harrisonville  
 Brierly, Dr. John B. ....Gunn City  
 Brierly, Jas. S. ....Harrisonville  
 Britt, Lella .....Harrisonville  
 Brown, Samuel E. ....Harrisonville  
 Brown, Walter R. ....Harrisonville  
 Bruce, George W. ....Pleasant Hill  
 Bruce, Richard H. ....Pleasant Hill  
 Eybee, F. E. ....Harrisonville  
 Corrigan, G. W. ....Harrisonville  
 Culbertson, J. ....Harrisonville  
 Daniel, R. Brown .....Harrisonville  
 Elder, Dr. A. R. ....Harrisonville  
 George, Dr. Wm. F. ....Belton  
 George, Thomas J. ....Gunn City  
 Glenn, Allen .....Harrisonville  
 Hall, Charles R. ....Harrisonville  
 Hall, Delmer K. ....Harrisonville  
 Harrelson, Sallie .....Belton  
 Haynes, Thomas N. ....Harrisonville

Hockaday, Charles E. .... Belton  
 Huston, James M. .... Belton  
 Hutton, Margaret ..... Garden City  
 Johnston, Ida ..... Belton  
 Jones, Virginia ..... Garden City  
 Kimberlin, G. C. .... Garden City  
 Kimberlin, G. P. .... Harrisonville  
 Morlan, E. E. .... Garden City  
 Price, Nita A. .... Harrisonville  
 Bailey, Robert T. .... Harrisonville  
 Ross, R. H. .... Creighton  
 West, John J. .... Garden City  
 West, John K., Jr. .... Garden City

#### **Cedar County.**

Alder, Ethel M. .... Cane Hill  
 Alder, Etta M. .... Cane Hill  
 Crawford, W. C. .... Stockton  
 Dunaway, Jane E. .... Caplinger Mills  
 Dunaway, W. F. .... Caplinger Mills  
 Hartley, R. L. .... Stockton  
 McCrary, Victor .... Eldorado Springs  
 Mitchell, J. L. .... Stockton  
 Nelson, T. L. .... Stockton  
 Prowell, Chas. E. .... Eldorado Springs

#### **Chariton County.**

Bogard, Margaret ..... Mendon  
 Buffington, S. A. .... Salisbury  
 Courtney, Mrs. Etta H. .... Keytesville  
 Davis, Dolly ..... Keytesville  
 Davis, J. W. .... Brunswick  
 Drace, W. S. .... Brunswick  
 Fallor, Alice ..... Brunswick  
 Gilliam, Lelia ..... Brunswick  
 Greene, C. A. .... Triplett  
 Hall, Margaret ..... Prairie Hill, P. O.  
 Hamlin, T. L. .... Triplett  
 Hardesty, Richard S. .... Sumner  
 Hancock, Alice V. .... Keytesville  
 Hancock, Martha Gay ..... Keytesville  
 Harris, Orienne ..... Brunswick  
 Hill, F. W. .... Keytesville  
 Hill, W. H. .... Brunswick  
 Ingraham, Judith ..... Brunswick  
 Kelso, Eugene ..... Musselfork  
 Kirkpatrick, Dr. H. E. .... Indian Grove  
 Magruder, Dr. W. T. .... Brunswick  
 Magruder, William ..... Brunswick  
 Merrifield, C. F. .... Triplett  
 Perkins, William ..... Brunswick  
 Plunkett, F. .... Brunswick  
 Price, Edwin W. .... Keytesville  
 Tatum, Dr. H. .... Brunswick

#### **Christian County.**

Bedford, Frances Elizabeth .... Billings  
 Howard, W. L. .... Billings  
 Netzer, John ..... Billings  
 Netzer, Peter W. .... Billings

#### **Clark County.**

Brainerd, Dr. Z. .... Kahoka  
 Christie, Mabel ..... Clark County  
 Ingold, L. .... Wyaconda

Ingold, Warren ..... Wyaconda  
 Montgomery, T. L. .... Kahoka

#### **Clay County.**

Allen, D. C., LL. D., '98 ..... Liberty  
 Bates, Leslie E. .... Excelsior Springs  
 Beery, O. K. .... Holt  
 Beery, Roy F. .... Holt  
 Bird, G. F. .... Liberty  
 Bosserman, Dr. .... Kearney  
 Deppe, Charles A. .... Glenville  
 Dollis, G. .... Kearney  
 Dougherty, L. B. .... Liberty  
 Fleet, Robert ..... Liberty  
 Gow, B. A. .... Liberty  
 Groves, John W. .... Liberty  
 Haynes, A. .... Excelsior Springs  
 Jenkins, J. H. .... Liberty  
 Jones, Samuel R. .... Excelsior Springs  
 Laffoon, C. A. .... Kearney  
 Leitch, Charles ..... Liberty  
 Love, J. .... Liberty  
 Maughmer, C. .... Kearney  
 Owen, Laura F. .... Paradise  
 Parker, P. .... Liberty  
 Scudder, W. R. .... Kearney  
 Simrall, D. C. .... Liberty  
 Ward, Robert E. .... Birmingham  
 Willhite, B. F. .... Barry

#### **Clinton County.**

Atchison, Ben A. .... Gower  
 Beery, B. B. .... Cameron  
 Bland, James A. .... Plattsburg  
 Chastain, Dr. C. W. .... Plattsburg  
 Clark, L. E. .... Gower  
 Cummings, Anna V. .... Gower  
 Dougherty, W. M. .... Cameron  
 Ensign, Bertha L. .... Cameron  
 Grayson, Conway ..... Grayson  
 Green, Talitha Jennie ..... Lathrop  
 Grier, R. W. .... Hemple  
 Hall, E. C. .... Plattsburg  
 Herndon, H. T. .... Plattsburg  
 Herndon, W. S. .... Plattsburg  
 Jones, Mrs. Georgie ..... Plattsburg  
 Livingstone, J. A. .... Cameron  
 Newby, C. B. .... Plattsburg  
 Parman, John ..... Lathrop  
 Price, P. R. .... Plattsburg  
 Rea, Dr. R. W. .... Plattsburg  
 Riggs, Brutus ..... Cameron  
 Sanders, W. B. .... Gower  
 Searce, R. E. .... Plattsburg  
 Shaver, John W. .... Lily  
 Shipley, Edith ..... Cameron  
 Starks, Dr. J. C. .... Gower  
 Walker, Thomas W. .... Plattsburg  
 Whitson, James ..... Gower  
 Wingate, J. C. .... Hemple  
 Wren, W. F. .... Gower

#### **Cole County.**

Baker, S. A. .... Jefferson City  
 Bassett, W. H. .... Jefferson City



Belch, Ida .....Jefferson City  
 Belch, J. E. ....Osage City  
 Belch, M. P. ....Jefferson City  
 Bodenheimer, Sophia .....Jefferson City  
 Bolton, May .....Jefferson City  
 Brown, F. M. ....Jefferson City  
 Carrington, Will J. ....Jefferson City  
 Church, H. B. ....Jefferson City  
 Clarke, W. ....Jefferson City  
 Crafton, Minnie .....Jefferson City  
 Dallmeyer, Pauline .....Jefferson City  
 Davison, Charles .....Jefferson City  
 Dewey, C. E. ....Jefferson City  
 Dix, Blanche .....Jefferson City  
 Dix, Charles A. ....Jefferson City  
 Elston, G. B. ....Elston  
 Gordon, Hattie .....Jefferson City  
 Hanszen, Lydia .....Jefferson City  
 Heisler, Mary .....Jefferson City  
 Heskett, J. W. ....Jefferson City  
 Hough, A. M. ....Jefferson City  
 King, E. L. ....Jefferson City  
 Lay, James H. ....Jefferson City  
 Luckett, F. E. ....Jefferson City  
 McCarthy, William .....Jefferson City  
 Russler, J. J. ....Osage City  
 See, Lulu .....Jefferson City  
 Silver, Ed. ....Jefferson City  
 Son, Dr. E. R. ....Osage City  
 Stampfli, G. J. ....Jefferson City  
 Stewart, McClellan .....Marion  
 Stoble, Charles .....Lohman  
 Waldecker, C. ....Jefferson City  
 Wulfert Amelia .....Jefferson City  
 Wulfert, Margaret .....Jefferson City  
 Young, James M. ....Jefferson City  
 Young, W. H. ....Jefferson City

#### Cooper County.

Allison, Clark .....Boonville  
 Buckmaster, C. L. ....Pilot Grove  
 Cochran, Dr. O. W. ....Boonville  
 Cordry, William .....New Lebanon  
 Corum, C. D. ....Boonville  
 Cosgrove, J. W. ....Boonville  
 Craemer, W. ....Bunceton  
 Davis, Owen .....Boonville  
 Draffen, W. V. ....Boonville  
 Ellis, John R. ....Pilot Grove  
 Elliott, J. Miles .....Boonville  
 Evans, Dr. R. L. ....Boonville  
 Evans, Dr. William .....Bellair  
 Harris, C. J. ....Pilot Grove  
 Hazell, Corinne .....Boonville  
 Hitch A. M. ....Boonville  
 Hoge, W. M. ....Boonville  
 Hunt, D. W. ....Pisgah  
 Johnston, T. A. ....Boonville  
 Jones, D. W. ....Boonville  
 Krumm, Henry .....Pilot Grove  
 Leonard, C. E. ....Bellair  
 Marshall, Tom .....Blackwater  
 Marshall, Thomas .....Boonville  
 McCutchen, J. W. ....Pilot Grove

McCutchen, Mrs. E. B. ....Pilot Grove  
 Mittlebach, William .....Boonville  
 Morris, T. H. ....Pisgah  
 Pigott, F. W. ....Boonville  
 Pigott, J. C. ....Boonville  
 Potts, Dr. J. D. ....Cooper County  
 Schackford, May .....Pilot Grove  
 Stephens, B. ....Bunceton  
 Stiffler, G. W. ....Boonville  
 Swarner, William H. ....Boonville  
 Tucker, F. L., Jr. ....Gooch Mill  
 Wagner, Laura .....Boonville  
 Walker, A. A. ....Pleasant Green  
 Williams, R. D. ....Boonville  
 Wilson, Dr. G. N. ....Gooch Mill  
 Woolridge, J. W. ....Boonville  
 Woolridge, Lulabel .....Boonville  
 Woolridge, O. J. ....Boonville  
 Zeigel, W. H. ....Boonville

#### Crawford County.

Bass, Ernest R. ....Steelville  
 Chapman, William M. ....Bourbon  
 Delano, Fannie A. ....Cuba  
 Devault, Samuel M. ....Cuba  
 McNichol, Thomas S. ....Cuba  
 Renfrow, Thomas O. ....Steelville  
 Small, Bessie .....Cuba  
 Watson, Sallie A. E. ....Fanning

#### Dade County.

Allen, Grace .....Dadeville  
 Allen, Elmer J. ....Dadeville  
 Bell, Charles T. ....Everton  
 Coppedge, Ad. V. ....Dadeville  
 Cowan, Robert D. ....Dadeville  
 Depee, Ida .....Greenfield  
 Estes, Mollie, .....Everton  
 Frieze, Edward .....Bona  
 Frieze, Edwin .....Greenfield  
 Griffith, Roll .....Greenfield  
 Lightner, Minis .....Greenfield  
 Lindsey, Helen .....Lockwood  
 Myers, Robert Lee .....Everton  
 Neale, Ben. M. ....Greenfield  
 Osborn, S. E. ....Arcola  
 Payne, S. A. ....Greenfield  
 Rowe, Harry .....Ward  
 Sloan, Mrs. Eda .....Greenfield

#### Dallas County.

Engle, Levi .....Buffalo  
 Hawkins, W. Carroll .....Buffalo  
 Marrow, Frank .....Buffalo  
 O'Bannon, Floyd .....Buffalo  
 Vaughn, Dr. B. W., Jr. ....Urbana

#### Daviess County.

Brown, Ethel E. ....Jamesport  
 Ford, T. B. ....Gallatin  
 Gillihan, L. B. ....Gallatin  
 Harrah, Jennie .....Jamesport  
 Haynes, F. C. ....Gallatin

Hutchinson, Etta ..... Jamesport  
 Johnson, C. .... Jamison  
 Jordin, Clair ..... Gallatin  
 Robertson, Gay A. .... Gallatin  
 Summers, Joe ..... Coffeyburg

#### DeKalb County.

Arnold, Dr. Z. T. .... Amity  
 Estes, C. E. .... Fairport  
 Ficklin, Charles L. .... Maysville  
 Hornberger, E. H. .... Maysville  
 Hughes, H. C. .... Stewartsville  
 Moorman, J. C. .... Maysville  
 Moorman, O. W. .... Maysville  
 Riggs, I. F. .... Weatherby  
 Riggs, Silas ..... Maysville  
 Riggs, Z. T. .... Maysville  
 Saunders, L. E. .... Stewartsville  
 Shull, R. L. .... Amity  
 Shultz, D. L. .... Maysville  
 Stokes, Charles E. .... Fairport  
 Urban, Fred W. .... Stewartsville  
 Varner, Calla ..... Union Star

#### Dent County.

Butler, Julia ..... Salem  
 Dye, A. E. .... Salem  
 Eaves, J. F. .... Salem  
 Holman, Thomas ..... Salem  
 Love, A. H. .... Salem  
 Organ, Daisy ..... Salem  
 Ware, S. H. .... Salem  
 Westerfield, Angle ..... Salem  
 Woodside, Gratia E. .... Salem  
 Woodside, Roy C. .... Salem

#### Dunklin County.

Bradley, J. H. .... Kennett  
 Caruthers, R. S. .... Kennett  
 Dalton, Zetta ..... Malden  
 Douglas, J. M., Jr. .... Senath  
 Douglas, Mrs. Otilie, Jr. .... Malden  
 Douglass, R. S. .... Malden  
 Ely, T. R. R. .... Kennett  
 Kent, Sadie T. .... Malden  
 Snider, G. E. .... Kennett

#### Franklin County.

Bolte, A. H. .... Union  
 Booth, James ..... St. Clair  
 Briegleb, Dr. C. F. .... St. Clair  
 Busch, Ella A. .... Washington  
 Connally, Monroe T. .... New Haven  
 Gerber, P. E. .... Campbellton  
 Haffner, Dr. Ernest L. .... Berger  
 Highley, Lee ..... Pacific  
 Hofman, Lydia ..... New Haven  
 Kampschmidt, A. W. .... Cedar Fork  
 Lynch, Orton C. .... Robertsville  
 Meyersick, Oscar E. .... Union  
 Schmidt, Dr. Gust ..... Pacific

#### Gasconade County.

Bek, W. G. .... Hermann  
 Braun, F. A. .... Hermann

Brewer, Robert E. .... Red Bird  
 Ellis, C. M. .... Hermann  
 Grass, Paul J. .... Hermann  
 Hoffman, Ben. .... Hermann  
 Niebruegge, William F. .... Hermann  
 Spohrer, F. O. .... Hermann  
 Walker, Robert ..... Hermann

#### Gentry County.

Bedford, John T. .... King City  
 Butler, Granville ..... Gentryville  
 Butler, William ..... Gentryville  
 Case, Mrs. E. W. .... Stanberry  
 Comstock, C. G. .... Albany  
 Enyart, Blanche ..... Stanberry  
 Enyart, Ethyl ..... Stanberry  
 Frisby, A. C. .... Stanberry  
 Gray, C. H. .... Stanberry  
 Gray, D. T. .... Stanberry  
 Gray, G. L. .... Stanberry  
 Gray, W. L. .... Stanberry  
 Gromer, S. D. .... Stanberry  
 Haas, Stanley M. .... Albany  
 Hatheway, Bishop ..... Stanberry  
 Hire, Sherman ..... Gentry  
 Holden, Esther N. .... Albany  
 Hubbell, Pearl ..... King City  
 Humphrey, George Lee ..... McFall  
 Liggett, Mrs. G. .... Stanberry  
 Manring, E. D. .... McFall  
 Marsh, S. F. .... Stanberry  
 McCaslin, Strausie ..... Stanberry  
 Merrill, W. T. .... Albany  
 Monroe, Walter S. .... Albany  
 Morrison, Oliver M. .... Stanberry  
 Mosley, C. L. .... Stanberry  
 Quigley, William H. .... Albany  
 Ralston, Henry ..... Stanberry  
 Rucker, J. T. .... Stanberry  
 Smith, J. E. .... Albany  
 Thomas, Bea ..... Albany  
 Thomas, C. C. .... Albany  
 Urban, Fred W. .... King City  
 Whaley, M. P. .... Albany  
 Williams, M. S. .... Lone Star

#### Greene County.

Case, James ..... Springfield  
 Chance, Alena A. .... Springfield  
 Cowden, A. S. .... Springfield  
 Crenshaw, Smith ..... Springfield  
 Diffenderfer, D. M. .... Springfield  
 Diffenderfer, Harry ..... Springfield  
 Favor, E. H. .... Springfield  
 Gideon, Nellie ..... Springfield  
 Gideon, Thomas H. .... Springfield  
 Goad, George W. .... Springfield  
 James, Virginia ..... Springfield  
 Lyon, A. W. .... Springfield  
 Lyons, Mrs. M. .... Springfield  
 Neville, James T. .... Springfield  
 Nichols, Lula ..... Springfield  
 Patterson, Ross C. .... Springfield

Silsby, J. W. .... Springfield  
Wear, A. H. .... Springfield

#### Grundy County.

Bailey, Cosby C. .... Trenton  
Bain, C. J. .... Trenton  
Bain, Homer J. .... Trenton  
Cook, R. M. .... Trenton  
Foster, G. K. .... Trenton  
Hume, Myrtle .... Trenton  
Kent, Martin W. .... Trenton  
Knight, A. G. .... Trenton  
Linney, W. B. .... Trenton  
Lowen, Letha M. .... Trenton  
Moore, G. P. .... Hickory Creek  
Robinson, Charles C. .... Trenton  
Stepp, W. D. .... Trenton  
Winters, Letitia V. .... Trenton  
Wynn, Mrs. Leon .... Edinburg

#### Harrison County.

Burris, T. P. .... Bethany  
Barlow, George W. .... Bethany  
Barlow, Gilbert .... Bethany  
Brewer, Miss Lake .... Ridgeway  
Burg, Kitty .... Bethany  
Burris, George .... Bethany  
Cummings, A. S. .... Bethany  
Gillidett, ———— .... Bethany  
Grant, W. M. .... Ridgeway  
Hale, J. R. .... Bethany  
Harrison, Cora Lee .... Bethany  
Harrison, Grace .... Bethany  
Harrison, John S. .... Bethany  
Harrison, Lester .... Bethany  
Harrison, Scott .... Bethany  
Harper, Frank .... Cainsville  
Higgins, Robert .... Bethany  
Lewis, Bert .... Bethany  
Linthacum, Jesse .... Ridgeway  
McClement, Kate .... Bethany  
Moling, Laura M. .... Bethany  
Nally, Dr. H. .... Cainsville  
Shipley, Edith .... Bethany  
Shipley, S. C. .... Bethany  
Spragg, Earle G. .... Ridgeway  
Stoner, Charles A. .... Mt. Moriah  
Sutton, Dr. B. M. .... Happy Valley  
Vandivert, Bessie .... Bethany  
Walton, W. D. .... Bethany  
Wiley, Frank .... Ridgeway  
Wren, Bert .... Bethany

#### Henry County.

Adair, Sudie P. .... Clinton  
Allen, Logan .... Windsor  
Banta, W. S. .... Clinton  
Brightman, S. C. .... Clinton  
Burge, R. J. .... Clinton  
Callison, John G. .... Windsor  
Callison, Sterling P. .... Windsor  
Campbell, J. C. .... Montrose  
Campbell, W. R. .... Clinton  
Carney, Dr. Ira .... Blairstown

Carney, J. D. .... Clinton  
Cock, Arthur .... Clinton  
Conrad, N. B. .... Montrose  
Costley, E. W. .... Ulrich  
Davis, Walter G. .... Windsor  
Dickinson, C. P. .... Clinton  
Dorman, G. W. .... Clinton  
Dorman, J. B. .... Clinton  
Dorman, S. P. .... Clinton  
Dufty, Bessie .... Clinton  
Dufty, Emma L. .... Clinton  
Feaster, Dr. J. F. .... Windsor  
Feaster, Ross E. .... Windsor  
Gates, Crist .... Montrose  
Gates, James .... Montrose  
Godwin, W. M. .... Clinton  
Goodrich, P. L. .... Calhoun  
Gray, Sallie .... Windsor  
Hackney, T. B. R. .... Ulrich  
Hall, W. F. .... Clinton  
Harner, G. R. .... Deepwater  
Hayden, Mrs. Marie L. .... Montrose  
Hinkle, J. I. .... Clinton  
Huston, Beulah .... Windsor  
Immer, George .... Garland  
Kennedy, Eugenia M. .... Clinton  
Kistler, J. C. .... Clinton  
Lamkin, Uel .... Clinton  
Lingle, Ed. .... Clinton  
McClain, L. B. .... Ulrich  
McCutchan, Nate .... Windsor  
McKean, L. B. .... Blairstown  
Melton, Emma .... Clinton  
Owen, F. B. .... Clinton  
Owen, W. E. .... Clinton  
Parks, Thomas .... Windsor  
Peel, Dr. Ed. .... Coal  
Pharis, T. A. .... Clinton  
Poague, Dr. S. A. .... Clinton  
Poague, E. M. .... Clinton  
Poague, H. T. .... Clinton  
Powers, Dr. John .... Clinton  
Powers, L. D. .... Clinton  
Reynolds, Joe .... Calhoun  
Shankland, Dr. W. L. .... Clinton  
Shelton, Miss .... Windsor  
Tiffany, Bessie E. .... Clinton  
Toalson, O. B. .... Ulrich  
Toalson, Oscar .... Ulrich  
Waddell, Mae .... Windsor  
Waddell, Nellie .... Windsor  
Witherspoon, ———— .... Clinton

#### Hickory County.

Armstrong, John W. .... Hermitage  
Armstrong, Mrs. Alta .... Hermitage  
Brown, L. E. .... Cross Timbers  
Gentry, Artie M. .... Weaubleau  
Liggett, E. E. .... Wheatland  
Marston, Charles E. .... Wheatland  
Miller, A. W. .... Weaubleau  
Pitts, Fount M., Sr. .... Pittsburg

#### Holt County.

Alkire, H. T. .... Oregon



Bennett, John .....Mound City  
 Blair, Charles A. ....Mound City  
 Blair, Ivan .....Oregon  
 Bridgeman, R. B. ....Oregon  
 Callow, Lee .....Mound City  
 Davis, Dr. J. M. ....Craig  
 Dungan, Edith L. ....Oregon  
 Graves, Charles .....Maitland  
 Hunter, O. A. ....Corning  
 Kennish, John .....Mound City  
 Kerr, Nelson .....Forest City  
 Martin, M. R. ....Oregon  
 Meyer, Don C. ....Mound City  
 Meyer, George W. ....Mound City  
 Meyer, W. P. ....Mound City  
 Morris, J. R. ....Oregon  
 Murphy, G. W. ....Oregon  
 Newton, N. B. ....Craig  
 Porter, D. W. ....Mound City  
 Schulte, Carrie .....Oregon  
 Schulte, Jessie .....Oregon  
 Schulte, William P. ....Oregon  
 Shellenburger, George .....Mound City  
 Wright, W. A. ....Craig  
 Zook, C. D. ....Oregon

#### Howard County.

Bagby, Robert M. ....Fayette  
 Briggs, David J. ....Fayette  
 Denny, J. H. ....Glasgow  
 Dinkle, Ernest .....Hilldale  
 Evans, E. R. ....Armstrong  
 Fields, Grace .....Fayette  
 Forbis, Jennie H. ....Fayette  
 Hairston, John R. ....Fayette  
 Head, John Calhoun .....Fayette  
 Hume, Leslie .....Armstrong  
 Pitts, Mrs. W. ....Roanoke  
 Pomers, Mrs. J. ....Fayette  
 Preston, Dr. J. S. ....Armstrong  
 Smith, C. B. ....Fayette  
 Yancey, Stephen B. ....Armstrong

#### Howell County.

Dwyer, Edward P. ....West Plains  
 Evans, Dr. Paul .....Olden  
 Martin, Thomas D. ....West Plains  
 Zorn, Edward .....West Plains

#### Iron County.

Ake, Frank P. ....Ironton  
 Kaesemacker, Gus C. ....Pilot Knob  
 Martin, James .....Ironton  
 Ogier, William C. ....Ironton

#### Jackson County.

Accord, Nora .....Sheffield  
 Adams, Arthur .....Buckner  
 Adams, Jennie .....Kansas City  
 Alexander, R. L. ....Kansas City  
 Anderson, A. E. ....Kansas City  
 Ballew, E. C. ....Kansas City  
 Barley, Ida L. ....Kansas City  
 Barnett, R. C. ....Kansas City

Barton, A. P. ....Kansas City  
 Birmingham, George ....Kansas City  
 Black, James .....Kansas City  
 Blake, Max .....Kansas City  
 Bone, Mary M. ....Mt. Washington  
 Bradbury, W. K. ....Kansas City  
 Bragg, E. O. ....Kansas City  
 Brandon, Mr. ....Kansas City  
 Brown, W. H. ....Kansas City  
 Bruce, R. ....Kansas City  
 Buchholz, William ....Kansas City  
 Burton, James M. ....Kansas City  
 Carroll, Carey M. ....Independence  
 Chaney, W. L. ....Kansas City  
 Chapman, Campbell ....Jackson County  
 Clark, Homer .....Kansas City  
 Cloud, R. R. ....Kansas City  
 Cole, G. M. ....Kansas City  
 Conover, Dr. C. C. ....Kansas City  
 Conrad, H. S. ....Kansas City  
 Cowherd, Fletcher .....Kansas City  
 Cowherd, Walker .....Kansas City  
 Cowherd, W. S. ....Kansas City  
 Creason, Goodwin .....Kansas City  
 Crisp, John T. ....Independence  
 Crittenden, H. H. ....Kansas City  
 Crittenden, T. T., Jr. ....Kansas City  
 Crowley, Mrs. Eva .....Kansas City  
 Curtis, Helen .....Kansas City  
 Daniel, H. Clay .....Kansas City  
 Denny, J. S. ....Kansas City  
 Dewey, Lorenzo S. ....Kansas City  
 Doach, Emil .....Kansas City  
 Doty, A. H. ....Kansas City  
 Douglass, Alex. E. ....Kansas City  
 Douglass, S. C. ....Kansas City  
 Dunn, J. E. ....Kansas City  
 Durham, L. E. ....Kansas City  
 Elliott, George N. ....Kansas City  
 Elston, Bertha .....Kansas City  
 Elston, Mrs. S. G. ....Kansas City  
 English, George H., Jr. ....Kansas City  
 Ess, Henry N. ....Kansas City  
 Ficklin, W. H. ....Kansas City  
 Flourney, John P. ....Kansas City  
 Fyke, C. V. ....Kansas City  
 Ganson, L. S. ....Kansas City  
 Garnett, R. B. ....Kansas City  
 Gentry, Richard .....Kansas City  
 Gentry, T. B. ....Kansas City  
 Gibson, J. E. ....Kansas City  
 Goodrich, J. E. ....Kansas City  
 Groves, H. J. ....Kansas City  
 Gudgell, Frank O. ....Independence  
 Hail, W. A. ....Kansas City  
 Haley, Thomas P. ....Kansas City  
 Hall, Ben. R. ....Kansas City  
 Hall, John C. ....Kansas City  
 Halstead, E. F. ....Kansas City  
 Halstead, Samuel R. ....Kansas City  
 Hamner, H. C. ....Kansas City  
 Harding, John T. ....Kansas City  
 Harris, S. F. ....Kansas City  
 Hatfield, James P. ....Kansas City

Henderson, James P. .... Kansas City  
 Henley, Kathryn H. .... Independence  
 Hickerson, Dr. J. C. .... Independence  
 Hickman, Walter .... Kansas City  
 Hill, Adam .... Independence  
 Hill, J. L. .... Independence  
 Hill, William M. .... Independence  
 Hitt, James J. .... Kansas City  
 Hilt, Patsy .... Independence  
 Hodge, R. W. .... Kansas City  
 Hoover, F. .... Kansas City  
 Howell, Charles M. .... Kansas City  
 Hughes, Tyre C. .... Kansas City  
 Jackson, N. T. .... Independence  
 Jones, Lee M. .... Independence  
 Jones, Llewellyn .... Independence  
 Karnes, J. V. C. .... Kansas City  
 King, W. P., Jr. .... Kansas City  
 Kramer, John .... Kansas City  
 Kumpf, F. W. .... Kansas City  
 Lane, Dr. H. H. .... Kansas City  
 Lathrop, Gardiner .... Kansas City  
 Latimer, Charles W. .... Independence  
 Lawrence, Mrs. Urma .... Kansas City  
 Long, Ona .... Kansas City  
 Love, John B. .... Kansas City  
 Maitland, Alex., Jr. .... Kansas City  
 Masters, Stanley M. .... Kansas City  
 Mastin, T. A. J. .... Kansas City  
 McCullough, Perry .... Kansas City  
 McFarland, David .... Kansas City  
 McGonigle, David S. .... Kansas City  
 McWilliams, Homer .... Kansas City  
 Meister, J. F. .... Kansas City  
 Meister, Mrs. G. R. .... Kansas City  
 Mitchel, S. A. .... Kansas City  
 Moran, Hampton .... Kansas City  
 Ostergard, Martin J. .... Kansas City  
 Paxton, Mrs. J. G. .... Independence  
 Pendleton, H. H. .... Independence  
 Perkins, Fred H. .... Kansas City  
 Peters, F. N. .... Kansas City  
 Peters, Mrs. F. N. .... Kansas City  
 Phillips, E. D. .... Kansas City  
 Phillips, Everett E. .... Kansas City  
 Phillips, J. F. .... Kansas City  
 Pinkerton, D. M. .... Kansas City  
 Pitts, Louis E. .... Kansas City  
 Procter, Marion E. .... Kansas City  
 Ray, F. O. .... Kansas City  
 Ridge, Mrs. T. S. .... Kansas City  
 Ridge, T. S. .... Kansas City  
 Ridgeway, J. T. .... Kansas City  
 Roberts, Frank M. .... Kansas City  
 Robinson, Dr. Wilse P. .... Kansas City  
 Robinson, Omer E. .... Kansas City  
 Rozelle, F. F. .... Kansas City  
 Saunders, D. G., Jr. .... Kansas City  
 Shaefer, Jean .... Kansas City  
 Sharp, Nathalie .... Kansas City  
 Sloan, R. T. .... Kansas City  
 Smith, Ernest E. .... Kansas City  
 Smith, J. A. .... Kansas City  
 Smith, J. B. .... Kansas City

Smith, J. Le Roy .... Kansas City  
 Snyder, R. M., Jr. .... Kansas City  
 Sparks, Theo. Clifton .... Kansas City  
 Staten, E. M. .... Independence  
 Stoner, Caroline .... Kansas City  
 Strother, S. B. .... Kansas City  
 Swearingen, O. H. .... Kansas City  
 Taggart, Mrs. A. W. .... Kansas City  
 Thatcher, Jessie L. .... Kansas City  
 Thornton, R. T. .... Kansas City  
 Triplett, Charles L. .... Levasy  
 Turner, James, E. .... Kansas City  
 Underwood, F. M. .... Kansas City  
 Utley, Lee .... Kansas City  
 Vance, Minnie .... Kansas City  
 Wade, John F. .... Kansas City  
 Wade, William .... Kansas City  
 Walker, Harry B. .... Kansas City  
 White, E. C. .... Kansas City  
 Whitsett, J. P. .... Kansas City  
 Whitsett, George .... Kansas City  
 Winslow, Isabella .... Kansas City  
 Woodson, A. P. .... Kansas City  
 Woods, William S. .... Kansas City  
 Woodson, Thomas B. .... Kansas City  
 Woodson, T. P. .... Kansas City  
 Young, Mrs. E. C. .... Kansas City  
 Young, Oland G. .... Kansas City  
 Zick, Barney .... Independence

#### Jasper County.

Asendorf, G. W. H. .... Carthage  
 Barker, Jake .... Carthage  
 Bishop, William .... Carterville  
 Boillot, W. W. .... Carthage  
 Booth, George E. .... Webb City  
 Bryan, Winnifred .... Carthage  
 Buckley, C. V. .... Joplin  
 Burnes, W. C. .... Carthage  
 Burney, W. I. .... Webb City  
 Burr, Carney C. .... Joplin  
 Campbell, John A. .... Avilla  
 Camron, E. F. .... Joplin  
 Chinn, Charles .... Webb City  
 Coe, Denzil W. .... Carthage  
 Coe, Urling C. .... Carthage  
 Cole, John B. .... Joplin  
 Collier, Myrtle .... Carthage  
 Cox, B. F. .... Joplin  
 Craycroft, Clark .... Joplin  
 Dabbs, George A. .... Joplin  
 Dabbs, Hugh .... Joplin  
 Dilworth, Clarence C. .... Joplin  
 Dryden, J. H. .... Carthage  
 Dryden, Randall .... Carterville  
 DuPoncet, Edward S. .... Reeds Station  
 Dwyer, Edward .... Joplin  
 Elliott, Ione .... Carthage  
 Emerson, Grant .... Joplin  
 Emry, Leslie B. .... Carthage  
 Evans, George A. .... Carthage  
 Felker, Henry C. .... Carthage  
 Fisher, Eldon J. .... Joplin  
 Fisher, Russell A. .... Joplin

Fleck, J. W. ....	Scotland
Fugitt, Olive .....	Carthage
Fugitt, Reuben .....	Neck
Funk, Frank .....	Webb City
Gardner, P. E. ....	Joplin
Garey, Elmer .....	Joplin
Greer, Bertha A. ....	Joplin
Greer Mattie .....	Joplin
Gregg, David M. ....	Joplin
Gregory, James A. ....	Joplin
Gwinn, J. M. ....	Joplin
Hackney, Thomas .....	Carthage
Halliburton, Westley H. ....	Carthage
Harrison, F. H. ....	Webb City
Helphenstine, Annie L. ....	Joplin
Hendrickson, C. P. ....	Webb City
Henley, James Arthur .....	Joplin
Hill, H. A. ....	Maplegrove
Hodkins, C. E. ....	Webb City
Hollingshead, Ralph .....	Joplin
Howard, T. P. ....	Carthage
Hoyt, H. C. ....	Joplin
Hull, M. R. ....	Carthage
Hummel, Ellis .....	Carterville
Hutcheson, Grace .....	Carthage
Johnson, Burt .....	Webb City
Johnson, Fred M. ....	Joplin
Jones, Elmer R. ....	Webb City
Kahn, Jennie O. ....	Joplin
Keith, Rena .....	Joplin
Kilburn, F. H. ....	Carthage
Kriekhaus, Leon .....	Joplin
Livingston, Joel T. ....	Joplin
Lundy, Bessie H. ....	Carthage
Lutman, B. F. ....	Joplin
Magruder, Frank C. ....	Webb City
Malsbury, Charles .....	Joplin
Malsbury Omar A. ....	Carthage
Martin, Ben .....	Smithfield
McCarthy, Grace .....	Carthage
McPike, Gertrude .....	Joplin
McReynolds, Allen .....	Carthage
Moore, Frank L. ....	Carthage
Newell, Anna G. ....	Carthage
O'Keefe, J. E. ....	Carthage
Peiffer, Herbert S. ....	Carthage
Perry, T. B. ....	Carthage
Peters, Rupért .....	Joplin
Potter, J. L. ....	Joplin
Powell, Bessie .....	Joplin
Price, Emma .....	Joplin
Ragan, W. C. ....	Joplin
Reed, James .....	Carthage
Roney, Thomas J. ....	Webb City
Ross, Lena G. ....	Carthage
Russum, Sarah E. ....	Carthage
Russum, Serena .....	Carthage
Sansom, F. W. ....	Joplin
Scott, Haywood B. ....	Joplin
Sedgwick, Frank L. ....	Webb City
Selvidge, R. G. ....	Joplin
Sexton, T. F. ....	Webb City
Siefert, Charles G. ....	Joplin
Shelton, Dr. M. C. ....	Joplin
Shepard, Edward L. ....	Joplin
Smith, Harry .....	Carthage
Smith, W. E. ....	Webb City
Spencer, C. B. ....	Joplin
Spencer, H. G. ....	Carthage
Storms, J. W. ....	Webb City
Swartz, Fred .....	Joplin
Thurman, A. W. ....	Joplin
Van Newman, Lulu .....	Carthage
Veatch, Otto .....	Webb City
Wallace, C. P. ....	Carterville
Wallace, Hubbe R. ....	Webb City
Waltz, W. O. ....	Carterville
Webb, E. T. ....	Webb City
Wharton, W. N. ....	Carthage
Williams, John E. ....	Joplin
Young, A. G. ....	Webb City

#### Jefferson County.

Booth, George F. ....	De Soto
Byrd, Thomas S. ....	De Soto
Cuolahan, Agnes O. ....	De Soto
Dearing, Frank R. ....	Hillsboro
Dinning, L. T., Jr. ....	De Soto
Gerber, Mae .....	De Soto
Hawkins, G. L. ....	Hematite
Higginbotham, M. F. ....	De Soto
Irwin, H. B. ....	De Soto
Kenner, George E. ....	Festus
Lanning, John H. ....	Festus
Marriott, E. T. ....	Sulphur Springs Landing
McClure, Anna .....	De Soto
Meissner, James G. ....	Bushberg
Rolufs, R. T. ....	Herculaneum
Sievers, Auguste L. ....	Herculaneum
Turk, Lydia .....	Festus
Weaver, Homa H. ....	Danby
Williams, Clyde .....	Hillsboro
Williams, J. G. ....	Hillsboro
Williams, Joseph G. ....	De Soto

#### Johnson County.

Beatty, William .....	Knobnoster
Boisseau, O. G. ....	Holden
Bolton, Rev. J. W. ....	Holden
Bolton, R. P. ....	Holden
Bolton, W. E. ....	Holden
Boulton, P. A. ....	Holden
Bradley, Dr. T. L. ....	Warrensburg
Bradley, N. M. ....	Warrensburg
Burress, Jeff .....	Warrensburg
Campbell, Samuel .....	Warrensburg
Chaney, Walter L. ....	Holden
Ferguson, J. L. ....	Warrensburg
Floyd, Mrs. M. A. ....	Holden
Glasser, Gertrude G. ....	Kingsville
Gallaher, Leo .....	Warrensburg
Grainger, W. C. ....	Warrensburg
Halsey, T. J. ....	Holden
Hammond, Lizzie .....	Holden
Hodsall, Dr. C. A. ....	Chilhowee
Horn, G. M. ....	Holden
Houts, O. L. ....	Warrensburg



Kemper, J. A. ....Warrensburg  
 King, Charles .....Holden  
 Littlefield, E. C. ....Knobnoster  
 Magee, R. M. ....Warrensburg  
 Morrow, Walter E. ....Warrensburg  
 Rice, Cora L. ....Warrensburg  
 Schurman, Jeanette ....Warrensburg  
 Shock, Lillie I. ....Warrensburg  
 Thompson, Dr. W. G. ....Holden  
 Williamson, J. M. ....Warrensburg  
 Wood, Ben A. ....Holden

#### Knox County.

Bonnel, Maxie .....Edina  
 Brown, John G. ....Edina  
 Brown, T. C. ....Edina  
 Corcoran, Una .....Edina  
 Cottey, W. Ernest .....Knox City  
 Fowler, Annie .....Edina  
 Funk, Eugene E. ....Hurdland  
 Gordon, Ed. ....Edina  
 Grander, Mary .....Edina  
 Griggs, Austin B. ....Hedge City  
 Hall, Frank .....Edina  
 Hennan, Sevena A. ....Colony  
 Hudson, Rose .....Edina  
 Lucas, Dr. William .....Edina  
 Miller, Kate .....Edina  
 Morton, John .....Hazelville  
 Parsons, Fred B. ....Edina  
 Ringer, C. R. ....Edina  
 Rouser, Ashby .....Newark  
 Rouser, Ruth .....Edina  
 Schofield, R. F. ....Edina  
 Shaffer, Cina .....Edina  
 Wilson, Mabel .....Edina  
 Woodward, G. F. ....Edina

#### Laclede County.

Clark, Henry W. ....Lebanon  
 Hartley, Dr. L. D. ....Nebo  
 Luthy, T. L. ....Lebanon  
 McGill, Caroline ....Lebanon  
 Mayfield, I. W. ....Lebanon  
 Mayfield, L. C. ....Lebanon  
 Mayfield, Mrs. Mary ....Lebanon

#### Lafayette County.

Asbury, A. E. ....Higginsville  
 Bailey, J. M. ....Higginsville  
 Bailey, W. J. ....Higginsville  
 Bascom, Lee .....Odessa  
 Bascom, Walker .....Odessa  
 Benton, Carolyn B. ....Odessa  
 Blakeley, William A. ....Higginsville  
 Bonham, Nellie .....Higginsville  
 Booten, R. C. ....Alma  
 Bradley, J. B. ....Dover  
 Campbell, Alex P. ....Corder  
 Campbell, Hiram F. ....Higginsville  
 Campbell, Jas. F. ....Higginsville  
 Campbell, Thos. B. ....Lexington  
 Carter, Dr. Robt. C. ....Higginsville  
 Catron, George M. ....Lexington

Chinn, Jas. P. ....Lexington  
 Corder, Lotta F. ....Corder  
 Creasey, Charles R. ....Odessa  
 Duling, T. J. ....Lexington  
 Ewing, Chatham .....Mayview  
 Fleet, R. R. ....Corder  
 Goodwin, J. G. ....Alma  
 Harwood, John T. ....Higginsville  
 Herd, Martin .....Higginsville  
 Hicklin, Robert A. ....Lexington  
 Holtcamp, Henry .....Aullville  
 Horner, J. W. ....Alma  
 Houx, N. M. ....Odessa  
 Hyde, G. W. ....Lexington  
 Keith, C. A. ....Higginsville  
 Kuehls, Joseph .....Odessa  
 Manly, Basil M. ....Lexington  
 McDaniels, Ada .....Higginsville  
 McMeekin, W. G. ....Higginsville  
 Phetzing, Uriah G. ....Lexington  
 Plattenburg, John R. ....Dover  
 Prigmore, James .....Higginsville  
 Ryland, Leonard G. ....Lexington  
 Sawyer, Sam .....Lexington  
 Schaperkoetter, H. H. ....Corder  
 Shelby, Joseph .....Lexington  
 Shelby, Tom .....Lexington  
 Slusher, John .....Dover  
 Uphouse, John .....Concordia  
 Wagner, J. P. ....Higginsville  
 Walker, John .....Higginsville  
 Walker, Thomas A. ....Higginsville  
 Webb, Dr. W. C. ....Higginsville  
 Webb, J. G. ....Higginsville  
 Webb, Robert .....Corder  
 Westerhouse, E. J. ....Concordia  
 Wilson, William B. ....Lexington  
 Young, Wilson .....Lexington

#### Lawrence County.

Crook, C. W. ....Talpa  
 Davis, Harvey .....Pierce City  
 Davis, H. L. ....Verona  
 Davis, M. F. ....Aurora  
 Elam, O. B. ....Aurora  
 Henson, C. L. ....Mt. Vernon  
 Hentschel, Gottfried F. ....Talpa  
 Hilpirt, A. L. ....Mt. Vernon  
 McCause, C. A. ....Mt. Vernon  
 McNatt, J. L. ....Aurora  
 Monon, W. E. ....Aurora  
 Potter, James A. ....Mt. Vernon  
 Roberts, John W. ....Miller  
 Shelton, J. N. B. ....Mt. Vernon  
 Turk, John C. ....Mt. Vernon  
 White, E. J. ....Aurora

#### Lewis County.

Agnew, James .....La Belle  
 Anderson, W. B. ....La Belle  
 Arnold, J. D. ....Lewistown  
 Arnold, T. F. ....Lewistown  
 Arnold, W. L. ....Lewistown  
 Arnold, W. L. Jr. ....Lewistown

Ball, James M. .... La Grange  
 Barr, Siss ..... Maywood  
 Bates, John M. .... Lewis County  
 Brown, Dr. J. C. .... Lewistown  
 Bumbarger, Hattie ..... Monticello  
 Christie, Cassius W. .... Lewistown  
 Dralle, Loretta D. .... Canton  
 Ellis, William ..... Canton  
 Fretwell, E. K. .... Canton  
 Graves, D. J. .... Lewistown  
 Graves, E. C. .... Lewistown  
 Hardesty, Frank ..... La Grange  
 Hunn, Henry ..... Maywood  
 Hunn, R. V. .... Maywood  
 Koch, Clara M. B. .... La Grange  
 Loudermilk, Mrs. Artie ..... Maywood  
 McCutchan, Joseph ..... Bunker Hill  
 McCutchan, Nathan ..... Bunker Hill  
 Moore, Wash K. .... Monticello  
 Osgood, ———— ..... Maywood  
 Patterson, J. L. .... Canton  
 Rouse, H. S. .... Monticello  
 Schofield, R. B. .... Lewistown  
 Smith, ———— ..... Bunker Hill  
 Travis, ———— ..... Bunker Hill  
 Wash, Joseph ..... Maywood  
 Yancey, Tom ..... La Belle

#### Lincoln County.

Alexander, Howard ..... Auburn  
 Alexander, J. S. .... Auburn  
 Avery, Charles D. .... Troy  
 Avery, Omer H. .... Troy  
 Brown, Frank D. .... Troy  
 Browning, Maggie ..... Moscow Mills  
 Brown, U. S. .... Troy  
 Cannon, Clarence A. .... Elsberry  
 Creech, B. J. Jr. .... Troy  
 Duncan, Clark ..... Olney  
 Duncan, Jesse J. .... Olney  
 Engelhardt, Francis A. .... Moscow Mills  
 Gibson, Estelle ..... Elsberry  
 Halley, T. A. .... Troy  
 Howell, Frank M. .... Troy  
 Killum, Susan ..... Winfield  
 Palmer, Bess ..... Elsberry  
 Palmer, Joseph Robert ..... Elsberry  
 Penn, Stuart L. .... Troy  
 Perkins, Henry W. .... Troy  
 Reed, Ben I. .... Troy  
 Robinson, Charlie B. .... Louisville  
 Robinson, Owen H. .... Silex  
 Shaw, Jesse J. .... Elsberry  
 Smiley, B. F. .... Whiteside  
 Sutton, Robert L. .... Troy  
 Walton, S. J. .... Troy  
 Watts, Arretta L. .... Elsberry  
 Watts, Lena P. .... Elsberry  
 Wells, Sarah ..... New Hope

#### Linn County.

Adams, Earl C. .... Linneus  
 Adams, W. R. .... Linneus  
 Andrew, ———— ..... Linneus

Baker, Josephine ..... Brookfield  
 Bailey, Andrew A. .... Brookfield  
 Barger, Hayes ..... Meadville  
 Betson, R. J. .... Linneus  
 Bresnehen, T. N. .... Brookfield  
 Brownlee, R. S. .... Brookfield  
 Burke, E. M. .... Laclede  
 Canada, Charles W. .... Shafter  
 Casity, George ..... Purdin  
 Cooper, I. B. .... Brookfield  
 Evans, S. D. .... Meadville  
 Evans, W. B. .... Meadville  
 Evans, W. E. .... Meadville  
 Ficklin, A. G. .... Brookfield  
 Haine, H. E. .... Linneus  
 Hickman, Julia M. .... Brookfield  
 Johnson, H. C. .... Meadville  
 Lander, Hal P. .... Brookfield  
 Loomis, Edward ..... Meadville  
 Moore, Joseph ..... Brookfield  
 Mullins, Ben. .... Linneus  
 Mullins, R. C. .... Linneus  
 Northcutt, C. W. .... Sumner  
 Pettijohn, James W. .... Brookfield  
 Seward, W. H. .... Bucklin  
 Shepherd, Etta ..... Meadville  
 Ware, Hattie W. .... Brookfield

#### Livingston County.

Ames, L. D. .... Chillicothe  
 Beatty, Maude ..... Chillicothe  
 Brandenberger, Jacobina ..... Chillicothe  
 Brandenberger, Leo ..... Chillicothe  
 Chapman, Homer ..... Chillicothe  
 Cleary, Fred C. .... Chillicothe  
 Hall, Jennie L. .... Bedford  
 Jackson, Alpha J. .... Chillicothe  
 Jackson, Carry R. .... Chillicothe  
 Jackson, Mabel ..... Chillicothe  
 Johnson, Gustavius ..... Chillicothe  
 Kitt, Paul Duane ..... Chillicothe  
 Leever, Flora ..... Chillicothe  
 Leever, Kittie ..... Chillicothe  
 Miller, Frank S. .... Chillicothe  
 Miller, Scott J. .... Chillicothe  
 Minter, Harry ..... Chillicothe  
 Sheetz, Ed. .... Chillicothe  
 Stewart, Burns ..... Chillicothe  
 Stone, Virgil B. .... Chillicothe  
 Wallbrunn, Maurice ..... Chillicothe  
 Westport, Sadie ..... Chillicothe

#### McDonald County.

Christensen, John B. .... Pineville  
 Manning, A. V. .... Pineville  
 Miller, Jas. W. .... Southwest City  
 Puckett, O. .... Pineville

#### Macon County.

Barrow, R. W. .... Macon  
 Brown, George G. .... Anabel  
 Buster, C. G. .... Macon  
 Butman, Dr. W. W. .... Macon  
 Carnahan, Adra ..... Atlanta

Cross, Orbrey Lee .....Callao  
 Davis, John P. ....Bevier  
 Dempsey, D. L. ....Macon  
 Dempsey, L. M. ....Macon  
 Dunham, S. S. ....Macon  
 Edwards, Dr. J. M. ....Bevier  
 Eubanks, D. W. ....Macon  
 Goodson, Walter C. ....Macon  
 Griffin, Otho B. ....Atlanta  
 Hunt, Dr. J. R. ....Ardmore  
 Jones, Ed. S. ....Bevier  
 Mathews, Otho .....Macon  
 Milam, Nellie .....Seney  
 Miller, Dr. W. H. ....Macon  
 Moody, Dr. B. E. ....Excello  
 Powell, Charles .....Macon  
 Reagan, Dr. C. W. ....Macon  
 Richards, Mabel .....Bevier  
 Robinson, Thomas W. ....Macon  
 Rowland, Dr. W. P. ....Bevier  
 Rubey, Harry .....La Plata  
 Rubey, Thos. L. ....La Plata  
 Scrutchfield, Dr. G. E. ....Macon  
 Sears, Charles T. ....Macon  
 Shelton, N. M. ....Macon  
 Terrell, A. C. ....Macon  
 Thompson, A. C. ....Anabel  
 Thompson, Daisy .....Bevier  
 Walker, Alma E. ....Macon  
 Welch, Dr. W. A. ....Macon  
 Welsh, Will .....Macon

#### Madison County.

Anthony, Dr. C. A. ....Fredericktown  
 Bruce, Mrs. Maggie ....Fredericktown  
 Cahoon, B. B. Jr. ....Fredericktown  
 Gale, Henry L. ....Fredericktown  
 Graves, J. F. ....Fredericktown  
 Griffith, N. C. ....Fredericktown  
 Marsh, Charles S. ....Fredericktown  
 Nifong, G. A. ....Fredericktown  
 Nifong, Henry ....Fredericktown  
 Thompson, W. H. ....Fredericktown

#### Maries County.

Berger, Miss Sylvia .....Light  
 Von Gremp, Dr. Henry.....Vienna  
 Von Gremp, Dr. W. ....Vienna

#### Marion County.

Ahalt, Genevieve .....Palmyra  
 Anderson, L. Morris .....Hannibal  
 Cable, John G. ....Hannibal  
 Drescher, Aurora .....Hannibal  
 Dulaney, W. H. ....Hannibal  
 Eby, David H. ....Hannibal  
 Foreman, Edward J. ....Hannibal  
 Forman, Sadie P. ....Hannibal  
 Ginnings, R. M. ....Hannibal  
 Glascock, Dr. D. O. ....Hannibal  
 Glasgow, Roy .....Hannibal  
 Hays, Dr. W. P. ....Hannibal  
 Heather, H. C. ....Palmyra  
 Hendron, Osca .....Hannibal

Holmes, A. S. ....Hannibal  
 Johnson, Frank .....Hester  
 Kilian, Frieda E. ....Hannibal  
 Lovelace, R. N. ....Palmyra  
 Mullen, Barbara .....Hannibal  
 Nelson, Eugene W. ....Hannibal  
 Plowman, John L. ....Hannibal  
 Rendlen, Charles E. ....Hannibal  
 Robards, John L. ....Hannibal  
 Schmidt, Bertha G. ....Hannibal  
 Schofield, Madison .....Hannibal  
 Shepherd, Frank .....Hannibal  
 Troppman, Verena .....Hannibal  
 Wetherly, E. P. ....Hannibal  
 Whitecotton, George W. ....Hannibal  
 Wilber, Walter .....Hannibal  
 Wilson, T. C. ....Hannibal

#### Mercer County.

Bailey, E. B. ....Princeton  
 Ballew, Thomas .....Princeton  
 Ballew, T. W. ....Princeton  
 Cockrell, Carl .....Princeton  
 Cook, John T. ....Princeton  
 Dykes, James D. ....Princeton  
 Fairley, Ben .....Princeton  
 Fuller, J. E. ....Princeton  
 Harrison, J. S. ....Princeton  
 Horn, Ernest .....Princeton  
 Johnson, George R. ....Princeton  
 Madden, Ira Gilbert .....Cleopatra  
 McDonald, Philip .....Princeton  
 Mullinax, Charles I. ....Princeton  
 Mullinax, Eli N. ....Princeton  
 Mullinax, Ira D. ....Princeton  
 Prichard, J. A. ....Princeton  
 Ramsey, T. O. ....Princeton  
 Thurston, H. H. ....Princeton

#### Miller County.

Allee, Rea H. ....Olean  
 Allee, W. L. ....Olean  
 Allee, W. S. ....Olean  
 Benage, Ernest .....Iberia  
 Benage, Dr. John .....Iberia  
 Benage, Dr. Otto .....Iberia  
 Brockman, Lon .....Eldon  
 Burton, Sam .....Capps  
 Cummings, J. L. ....Tuscumbia  
 Davidson, E. J. ....Aurora Springs  
 DeVilbliss, Edgar ....Spring Garden  
 Fowler, Georgia Lee .....Eldon  
 Harvey, Ralph .....Eldon  
 Hauenstein, P. F. ....Tuscumbia  
 Inglish, F. W. ....Olean  
 Jenkins, C. O. ....Spring Garden  
 Jenkins, O. O. ....Spring Garden  
 Johnson, W. S. ....Tuscumbia  
 Lombar, Frederic .....Tuscumbia  
 Weeks, E. C. ....Eldon

#### Mississippi County.

Berry, Dick P. ....Charleston  
 Brown, H. M. ....Charleston



Deal, E. J. ....Charleston  
 Deal, J. D. ....Charleston  
 Haw, J. M. ....Charleston  
 Joslyn, O. W. ....Charleston  
 Ogilvie, Roy ....Charleston  
 Russell, J. C. ....East Prairie  
 Russell, J. J. ....Charleston  
 Simpson, A. D. ....Charleston  
 White, Robert C. ....Bertrand

#### Moniteau County.

Aldridge, Lon ....Latham  
 Biggs, Helen E. ....California  
 Briscoe, E. A. ....Tipton  
 Burk, M. C. ....Tipton  
 Carey, E. E. ....Clarksburg  
 Cole, William ....Clarksburg  
 Cook, S. ....Clarksburg  
 Couch, B. S. ....Tipton  
 Embry, R. M. ....California  
 Flynt, Mrs. W. R. ....California  
 Flynt, W. R. ....California  
 Freudenberger, H. C. ....Clarksburg  
 Freudenberger, N. ....Clarksburg  
 Fry, Luther ....Tipton  
 Gates, Mary E. ....California  
 Glasscock, T. ....Tipton  
 Hazell, Lucy ....Tipton  
 Lynch, O. ....Tipton  
 Marsh, Dr. J. W. ....Tipton  
 Monroe, Russell ....Tipton  
 Newkirk, Sam. ....Tipton  
 Newton, ———— ....Latham  
 Patterson, Dr. William ....Tipton  
 Redmon, Dr. Squire ....Tipton  
 Renshaw, Nora W. ....Tipton  
 Reynolds, Dr. Willim ....Lupus  
 Robertson, Alta ....Clarksburg  
 Robertson, Alvin ....Clarksburg  
 Robertson, Olin ....Clarksburg  
 Seitz, A. V. ....Jamestown  
 Sprague, E. Light ....California  
 Stewart, Kate ....Clarksburg  
 Stephens, Phil H. ....California  
 Williams, Helen ....California

#### Monroe County.

Alexander, Carter ....Paris  
 Alexander, R. G. ....Paris  
 Alexander, W. H. ....Paris  
 Austin, Belle ....Granville  
 Baker, Charles M. ....Santa Fe  
 Bannister, W. D. ....Monroe City  
 Bapell, Samuel S. ....Paris  
 Bell, A. D. ....Monroe City  
 Bell, Dr. William T. ....Stoutsville  
 Bodine, R. N. ....Paris  
 Boyd, James P. ....Paris  
 Brace, Penn. ....Paris  
 Carson, ———— ....Monroe City  
 Davis, Estill ....Holliday  
 Grigsby, J. T. ....Paris  
 Henderson, C. F. ....Paris  
 Hornback, Irene ....Monroe City

Hughy, C. B. ....Paris  
 Morgan, Fred B. ....Tulip  
 Nickell, Luther O. ....Granville  
 Powell, W. W. ....Paris  
 Powers, Candace ....Paris  
 Reid, Angie ....Paris  
 Sanford, Frances M. ....Welch  
 Smith, C. E. ....Santa Fe  
 Vaughan, M. ....Paris  
 Violet, D. P. ....Florida  
 Walker, George J. ....Monroe City  
 Whitecotton, J. H. ....Paris

#### Montgomery County.

Blair, John T. ....Wellsville  
 Burch, Dr. S. J. ....Rhineland  
 Busch, B. F. ....Americus  
 Chandlee, J. M. ....Jonesburg  
 Cox, Dr. S. S. ....Wellsville  
 Crockett, Dr. W. A. ....Montgomery  
 Edwards, Laura D. ....Middletown  
 Fisher, Gertrude ....Montgomery  
 Graves, Dr. J. F. ....Montgomery  
 Graves, Rev. D. W. ....Montgomery  
 Harrison, A. Y. ....Mineola  
 Hupe, William F. ....Montgomery  
 Jacks, Harry S. ....Montgomery  
 Lafferty, A. W. ....Montgomery  
 Lewelling, W. W. ....Montgomery  
 Morgan, Oscar ....Montgomery  
 Muns, Dr. G. E. ....Montgomery  
 Nebel, J. V. ....High Hill  
 Nowlin, Dr. David ....Montgomery  
 Paul, Rolla ....Montgomery  
 Russell, Eula M. ....Montgomery  
 See, George W. ....Montgomery  
 Vermillion, M. E. ....Middletown  
 Wilson, O. A. ....Wellsville

#### Morgan County.

Daniels, Samuel ....Versailles  
 Harrison, Mrs. Ed. ....Barnett  
 Harrison, Mrs. P. S. ....Excelsior  
 Jones, Alma ....Glensted  
 Jones, Conway ....Versailles  
 Jones, F. P. ....Versailles  
 Knipmeyer, A. B. ....Versailles  
 Knoop, A. A. ....Versailles  
 Norfleet, R. A. ....Excelsior  
 Ross, A. L. ....Versailles  
 Taylor, W. A. ....Versailles

#### New Madrid County.

Barnes, Charles M. ....Marston  
 Hunter, A. R. ....New Madrid  
 Jasper, Harry ....New Madrid  
 Lee, Albert ....New Madrid  
 Marshall, W. H. ....Morehouse  
 Mott, Robert E. ....New Madrid  
 Phillips, Murray ....New Madrid  
 Riley, Davis R. ....New Madrid  
 Riley, William ....New Madrid  
 Robbins, James K. ....New Madrid  
 Rutledge, R. S. ....New Madrid

Stacy, W. A. ....New Madrid  
Steel, Howard .....New Madrid

#### **Newton County.**

Albert, Ethelyn N. ....Seneca  
Armstrong, Hugh .....Neosho  
Jones, R. Fred .....Neosho  
Lee, Ilus M. ....Neosho  
McClintock, Grace A. ....Granby  
Moran, Hampton .....Neosho  
Prettyman, Chas. E. Jr. ....Neosho  
Rice, Leslie D. ....Neosho  
Rice, Sam. ....Neosho  
Ruark, Horace C. ....Neosho  
Sloan, Georgie O. ....Neosho  
Smith, Elmer .....Neosho  
Walker, John C. ....Neosho

#### **Nodaway County.**

Anthony, Dr. F. R. ....Maryville  
Anthony, Hettie .....Maryville  
Burch, Ollie H. ....Hopkins  
Dungan, H. McF. ....Hopkins  
Ellis, Tom M. ....Barnard  
Evans, John R. ....Maryville  
Evans, J. R. ....Maryville  
Godsey, Roy .....Hopkins  
Growney, James C. ....Maryville  
Johnson, John H. ....Clearmont  
Jones, E. H. ....Parnell City  
Keeler, J. P. ....Maryville  
Lieb, Cassius M. ....Maryville  
Lieb, Mrs. C. M. ....Maryville  
O'Connor, Tom E. ....Maryville  
Rundle, C. O. ....Burlington Junction  
Storm, Fred. ....Maryville

#### **Oregon County.**

Gann, Thomas L. ....Alton  
Powell, Nell D. ....Thayer

#### **Osage County.**

Bonnot, R. E. A. ....Bonnot's Mill  
Mahon, Dr. W. P. ....Chamois  
McKnight, Z. ....Chamois  
Peters, John P. ....Chamois

#### **Ozark County.**

Kyle, J. J. ....Thornfield  
Pearcy, Elmer E. ....Thornfield  
Pumphrey, J. W. ....Bakersfield  
White, Dr. J. T. ....Gainesville

#### **Pemiscot County.**

Corbet, Sam J. ....Caruthersville  
Faris, Charles B. ....Caruthersville  
Faris, John .....Caruthersville  
Garrett, Corydon .....Caruthersville  
Hudgings, Dr. M. H. ....Caruthersville  
Huffman, Carl .....Caruthersville  
Huffman, J. D. ....Caruthersville  
Robertson, Kate .....Caruthersville  
Ward, Wm. Allen. ....Caruthersville

#### **Perry County.**

Bond, Samuel .....Perryville  
Cashion, G. L. ....Perryville  
Wilson, Robert M. ....Perryville

#### **Pettis County.**

Bamers, Helen A. ....Sedalia  
Barnett, Bruce .....Sedalia  
Barnett, George .....Sedalia  
Barnett, O. M. ....Sedalia  
Bente, C. W. ....Sedalia  
Blair, Irene .....Sedalia  
Blair, Jessie .....Sedalia  
Bishop, Dr. W. T. ....Hughesville  
Briscoe, P. E. ....Green Ridge  
Bronson, H. H. ....Sedalia  
Brown, Dr. J. T. ....Houstonia  
Coddling, E. E. ....Sedalia  
Decker, J. ....Sedalia  
Deppe, C. A. ....Sedalia  
Dow, Augustus C. ....Georgetown  
Dow, Harvey D. ....Sedalia  
Ferguson, Pearl .....Houstonia  
Garner, E. B. ....Sedalia  
Gentry, Lee .....Sedalia  
Gentry, Reuben .....Sedalia  
Gentry, R. J. ....Sedalia  
Gilker, J. A. ....Sedalia  
Hayman, Rosina .....Houstonia  
Harrison, E. N. ....Sedalia  
Hastain, P. D. ....Sedalia  
Heard, John T. ....Sedalia  
Higdon, R. A. ....Sedalia  
Hoffman, Louis .....Sedalia  
Hoffman, Mrs. L. ....Sedalia  
Jenkins, C. A. ....Longwood  
Kydd, Elizabeth .....Green Ridge  
Lamm, Philip .....Sedalia  
Leach, Frank .....Sedalia  
Lee, George DeWitt .....Sedalia  
Longan, George F. ....Sedalia  
Maltby, Gertrude .....Sedalia  
McClure, P. Anna .....Hughesville  
McGowan, Laura T. ....Sedalia  
McGruder, M. A. ....Sedalia  
Norris, A. G. ....La Monte  
Norton, Jennie .....Sedalia  
Parkhurst, Dr. Charles L. ....Houstonia  
Parmerlee, William .....Sedalia  
Powell, William H. ....Sedalia  
Shortridge, A. L. ....Sedalia  
Sinnott, H. B. ....Sedalia  
Stratton, P. B. ....Sedalia  
Todd, Cad .....Sedalia  
White, James .....La Monte  
Williams, John C. ....Sedalia  
Yeater, Charles E. ....Sedalia

#### **Phelps County.**

Burgher, Sylvia A. ....Rolla  
Buskett, E. W. ....Rolla  
Cowles, F. R. ....Rolla  
Draper, J. C. ....Rolla  
Dyer, T. ....Rolla

Frazier, I. P. ....Rolla  
Harrison, J. B. ....Rolla

#### Pike County.

Biggs, Dr. M. O. ....Bowling Green  
Blair, Garnett ....Bowling Green  
Boothe, Daisy D. ....Louisiana  
Craig, J. H. ....Cyrene  
Campbell, E. E. ....Louisiana  
Clark, Mrs. Champ. ....Bowling Green  
Cooper, Alex. ....Paynesville  
Davis, Anna ....Curryville  
Douglas, James T. ....Frankford  
Foster, A. D. ....Springdale  
Fry, B. W. ....Louisiana  
Fry, Mrs. Mollie L. ....Louisiana  
Holcomb, Mrs. D'Arline Mc-  
Nutt ....Bowling Green  
Jamison, Carson ....Annada  
Lawrence, Alonzo ....Bowling Green  
Lonsdale, F. S. ....Ashley  
Love, Dr. F. S. ....Bowling Green  
Matson, J. W. ....Louisiana  
May, Robert A. ....Louisiana  
McCune, Oke ....Frankford  
McNutt, Kathleen ....Bowling Green  
McPike, Gertrude ....Seventysix  
McPike, J. E. ....Bowling Green  
Nalley, Tom Jr. ....Louisiana  
Paine, Alice M. ....Louisiana  
Pryor, Herbert ....Paynesville  
Ragan, Dr. Sylvester ....Spencerburg  
Rowley, R. A. ....Louisiana  
Sparrow, Sam W. ....Louisiana  
Sweet, Arthur T. ....Curryville  
Tapley, Joseph ....Bowling Green  
Thomason, Mae ....Louisiana  
Watson, Miss ....Louisiana  
Wilcoxon, Dr. Hurley. ....Bowling Green  
Younker, Blanche ....Louisiana

#### Platte County.

Baldwin, Dixie ....Platte City  
Beery, Sid. ....Platte City  
Burnes, A. D. ....Platte City  
Campbell, J. C. ....Stillings  
Clark, Mrs. M. H. ....Platte City  
Clements, W. T. ....Platte City  
Coffey, Dr. Grundy ....Platte City  
Collins, Z. Sam. ....Smithville  
Coots, J. W. ....Platte City  
Davis, Mrs. Sadie T. ....Platte City  
Dix, M. L. ....Dearborn  
Dresser, Lee ....Platte City  
Fulcher, A. P. ....Tracy  
Gabbert, W. H. ....Dearborn  
Gustin, Charles ....Edgerton  
Hamm, B. F. ....Platte City  
Hamm, J. S. ....Weston  
Hawkins, Canly ....Weston  
Humphrey, J. H. ....Stillings  
Jacks, Otis ....Camden Point  
Johnson, J. O. ....Platte City  
Marshall, Amos ....Platte City

McKee, Hattie ....Stillings  
Miller, Mrs. Charles ....Platte City  
Olvis, J. E. ....Stillings  
Park, Guy B. ....Platte City  
Shickles, James ....Farley  
Talbot, Carrie ....Platte City  
Thomas, T. T. ....Edgerton  
Willhite, Benjamin F. ....Barry  
Willhite, Frank ....Linkville  
Wilson, Norval ....Settles Station  
Zarn, George ....Platte City

#### Polk County.

Askren, O. O. ....Bolivar  
Cunningham, L. ....Bolivar  
Jones, L. G. ....Slagle  
McLane, Ora J. ....Humansville  
Mitchell, B. E. ....Morrisville  
Skinker, C. H. ....Bolivar  
Viles, C. W. ....Bolivar  
Viles, L. C. ....Bolivar  
Williams, A. ....Bolivar

#### Pulaski County.

Locker, W. H. ....Waynesville  
Rollins, Samuel T. ....Waynesville  
Wright, Frank H. ....Richland

#### Putnam County.

Berry, Eustace ....Unionville  
Bonfoey, Lawrence ....Unionville  
Bonfoey, Percy ....Unionville  
Goul, Frank D. ....Unionville  
Holman, Dr. J. H. ....Unionville  
James, G. ....Lucerne  
Marshall, Neal B. ....Unionville  
Marshall, William ....Unionville  
McKinley, J. C. ....Unionville  
Putnam, J. H. ....Hartford  
Robinson, Bertren Lee ....Unionville  
Weatherford, Guy ....Unionville  
Wentworth, Orris F. ....Unionville

#### Ralls County.

Alford, E. L. ....Perry  
Allison, J. O. ....New London  
Bell, E. T. ....Hatch  
Eondurant, O. C. ....Nadine  
Briscoe, Jack ....New London  
Caldwell, Robert B. ....Nadine  
Calvert, G. W. Jr. ....Nadine  
Carroll, S. S. ....Perry  
Clark, Geo. ....Center  
Coil, J. A. ....Hutchinson  
Coil, J. H. ....Hutchinson  
Downing, R. M. ....New London  
Hays, Chas. T. ....New London  
Hulse, Benjamin ....New London  
Keithley, E. W. ....Center  
Keithley, Mrs. E. W. ....Center  
Lake, Arlie ....New London  
Lynch, Kirtley ....Noonan



McFarland, Jno. .... Rensselaer  
 McFarland, Marion .... Rensselaer  
 McFarland, Roy .... Rensselaer  
 Megown, J. E. .... New London  
 Northcutt, Jno. .... Saverton  
 Osterhaut, Silas O. .... Center  
 Strode, R. C. .... New London  
 Strode, Wm. .... Spalding  
 Wallace, Dave .... New London  
 Waters, Timothy .... Nadine  
 Watson, Urton .... New London

#### Randolph County.

Austin, W. T. .... Huntsville  
 Baker, Eula .... Moberly  
 Balthis, Frank S. .... Huntsville  
 Baxter, Jno. .... Moberly  
 Berry, Jas. Alex. .... Moberly  
 Bowers, W. .... Moberly  
 Bradsher, Earl .... Clifton Hill  
 Buck, Mrs. Leila S. .... Moberly  
 Cane, Mary E. .... Huntsville  
 Carter, Martha M. .... Huntsville  
 Cave, Willard P. .... Moberly  
 Dossey, Effie .... Moberly  
 Doyle, L. U. .... Moberly  
 Elliott, Edwin .... Moberly  
 Ferris, Forrest G. .... Moberly  
 Frazier, L. .... Clifton Hill  
 Gladney, A. C. .... Moberly  
 Hammett, Aubrey R. .... Huntsville  
 Harvey, Frank B. .... Moberly  
 Harvey, Julia .... Moberly  
 Head, Bolivar S. .... Moberly  
 Hogan, Fannie .... Moberly  
 Hunter, S. O. .... Moberly  
 Jarvis, Robert E. .... Moberly  
 Lilly, J. C. .... Moberly  
 Lotter, H. H. .... Moberly  
 Lowery, T. J. .... Huntsville  
 Mangus, Dr. C. W. .... Moberly  
 Marshall, Claude .... Moberly  
 Moore, Mrs. W. F. Jr. .... Moberly  
 Ridgeway, G. W. .... Clark  
 Ross, Pearl .... Moberly  
 Rothwell, Rolla R. .... Moberly  
 Rothwell, Mrs. Rolla R. .... Moberly  
 Rothwell, Will A. .... Moberly  
 Rucker, James E. .... Higbee  
 Schooling, Lacy P. .... Moberly  
 Terrill, Henry .... Moberly  
 Terrill, Lizzie .... Moberly  
 Terrill, Vincent .... Moberly  
 Thornberg, Roy .... Moberly  
 Turner, O. H. .... Higbee  
 Wayland, Mrs. L. L. .... Moberly  
 Whiteford, Flora .... Higbee  
 Wight, J. W. Jr. .... Moberly  
 Williams, C. G. .... Moberly  
 Wilson, W. H. .... Moberly  
 Wood, Annie .... Moberly  
 Woods, Frank T. .... Moberly

#### Ray County.

Andrews, J. H. .... Lawson  
 Bogie, M. M. .... Richmond  
 Bogie, Rector .... Richmond  
 Brady, D. B. .... Richmond  
 Broughton, Allan T. .... Hardin  
 Buchanan, Henry R. .... Richmond  
 Chenault, C. A. .... Richmond  
 Child, Clarence .... Richmond  
 Crowley, Claude .... Richmond  
 Crowley, G. W. .... Richmond  
 Divelbiss, F. P. .... Richmond  
 Estes, J. H. .... Richmond  
 Graham, Fowler .... Richmond  
 Grimes, Marvin .... Hardin  
 Gross, Chas. .... Lawson  
 Hamilton, A. P. .... Richmond  
 Lavelock, Geo. .... Richmond  
 Lavelock, Thos. .... Richmond  
 McGaugh, Elmer T. .... Richmond  
 Morris, Jonus .... Richmond  
 Patton, E. W. .... Richmond  
 Shepherd, C. T. .... Hardin  
 Shotwell, C. B. .... Richmond  
 Smith, Harry B. .... Richmond  
 Taylor, W. R. .... Richmond  
 Towler, T. B. .... Richmond  
 Van Trump, P. .... Elmira  
 Woodson, H. P. .... Richmond

#### Reynolds County.

Smith, Z. C. .... Centerville

#### Ripley County.

Foard, E. T. .... Doniphan  
 Lane, Thos. F. .... Doniphan  
 Martin, W. W. .... Doniphan  
 Presson, J. A. .... Doniphan  
 Sheppard, J. C. .... Doniphan

#### St. Charles County.

Castlio, Mitchell .... Mechanicsville  
 Cavanaugh, Daniel J. .... St. Charles  
 Corley, Thos. E. .... St. Paul  
 Keithley, Ora A. .... O'Fallon  
 Knippenberg, Henry .... Femme Osage  
 Pringle, J. H. .... Foristell  
 Tyler, Earle G. .... St. Charles  
 Woolfolk, Florence .... St. Charles

#### St. Clair County.

Belisle, M. R. .... Appleton City  
 Button, Clifford H. .... Appleton City  
 Crook, J. Ed. .... Osceola  
 Crook, Lee .... Osceola  
 Gathright, Dr. J. B. .... Appleton City  
 Gathright, M. W. .... Appleton City  
 Gilbreath, Jno. A. .... Appleton City  
 Hargus, J. C. .... Osceola  
 Howell, Shrader P. .... Appleton City  
 Lucas, William C. .... Osceola  
 Robinson, H. E. .... Appleton City  
 Robinson, R. D. .... Appleton City

Rome, Harry C. ....Appleton City  
 Schmitt, Clara .....Lowry City  
 Smith, Clyne .....Roscoe  
 Theilman, G. A. ....Appleton City  
 Wright, Lena F. ....Appleton City

#### St. Francois County.

Asbury, Mary E. ....Farmington  
 Gray, L. N. ....Bonne Terre  
 Hensley, W. L. ....Farmington  
 Mahn, Ed. ....Bonne Terre  
 Poston, F. O. ....Bonne Terre  
 Rozier, E. A. ....Farmington  
 Rucker, Alvin .....Farmington  
 Spough, Bertha M. ....Farmington  
 Swink, Lida May .....Farmington  
 Swink, R. A. ....Farmington  
 Thompson, F. J. ....Flat River  
 Wilkinson, C. P. ....Farmington  
 Wilkinson, Wm. F. ....Farmington

#### Ste. Genevieve County.

Boverie, W. C. ....Ste. Genevieve  
 Leavenworth, Geo. ....Ste. Genevieve  
 Vaeth, Joseph .....Ste. Genevieve  
 Vaeth, Lawrence H. ....Ste. Genevieve  
 Wood, Stuart M. ....Ste. Genevieve

#### St. Louis County.

Bates, Conway .....Clayton  
 Blackwell, W. A. ....Pattonville  
 Brent, A. W. ....Kirkwood  
 Brent, Mrs. A. W. ....Kirkwood  
 Bristol, Alice .....Webster Groves  
 Brossard, Cornelia .....Kirkwood  
 Brossard, Julia E. ....Kirkwood  
 Brownfield, Le Roy.....Pattonville  
 Chomean, Henri .....Clayton  
 Christine, Mrs. Joseph.....Ferguson  
 Crecellius, Samuel F. ....Mehlville  
 Darlow, Ada A. ....Afton  
 Ford, S. M. ....Jennings Station  
 Gardner, A. E. ....Maplewood  
 Griffith, W. W. ....Ferguson  
 Herboth, Ella .....Central  
 Hoffman, H. M. ....Maplewood  
 Hogan, R. R. ....Webster Groves  
 Kroeger, Mrs. Ernest. ....Webster Groves  
 Lauman, Belle .....Wellston  
 Lewis, J. J. ....Webster Groves  
 Loughran, Alice .....Maplewood  
 Maguire, Emily .....Maplewood  
 Matthews, B. L. ....Clayton  
 Matthews, Buell .....Clayton  
 Mauro, Julia Baker.....Sappington  
 Meyers, ———— .....Florissant  
 Moody, Mark .....Webster Groves  
 Mottin, ———— .....Florissant  
 Shinkle, S. W. ....Kirkwood  
 Stevens, B. C. ....Clayton  
 Stevens, H. L. ....Lake P. O.  
 Stevens, R. H. ....Clayton  
 Strazer, Adah Lee .....Tuxedo  
 Turner, O. H. B. ....Maplewood

#### Saline County.

Adams, N. T. ....Marshall  
 Alexander, E. G. ....Blackburn  
 Alexander, Ralph .....Blackburn  
 Allison, Milton .....Marshall  
 Beamer, P. H. ....Blackburn  
 Bell, Virginia .....Miami  
 Biggs, Paul .....Arrow Rock  
 Blackburn, C. J. ....Blackburn  
 Blackburn, M. P. ....Blackburn  
 Bridges, J. C. ....Slater  
 Burrus, F. M. ....Miami  
 Burrus, Lucy .....Miami  
 Caldwell, Dr. C. W. ....Slater  
 Caldwell, E. A. ....Slater  
 Caldwell, E. G. ....Slater  
 Caldwell, Lou B. ....Slater  
 Carpenter, G. W. ....Miami  
 Carpenter, Mabel .....Miami  
 Cooney, Jas. ....Marshall  
 Davidson, Dr. J. H. ....Hardeman  
 Davis, A. J. ....Hardeman  
 Davis, Geo. F. ....Marshall  
 Davis, Joseph B. ....Marshall  
 Daves, Bud .....Oreaville  
 Denny, Jas. M. ....Marshall  
 Duggins, Ralph H. ....Marshall  
 Durrett, Dr. Robert .....Oreaville  
 Dyer, Roy .....Shackelford  
 Edmonds, Raymond S. ....Miami  
 Floyd, Maurice A. ....Blackburn  
 Fulton, Chas. E. ....Malta Bend  
 Gore, Abner .....Marshall  
 Gouldin, J. B. ....Marshall  
 Grady, Henry D. ....Miami  
 Groves, Gordon .....Blackburn  
 Gwinn, R. L. ....Slater  
 Harris, Dr. Jos. Ed. ....Marshall  
 Hill, Sam .....Slater  
 Hitchborn, C. H. ....Miami  
 Irvine, Wm. L. ....Fairville  
 Jackson, C. T. ....Miami  
 Land, J. B. ....Slater  
 Lyons, Martin P. ....Marshall  
 Lynch, Wm. G. ....Marshall  
 Major, J. W. M. ....Blackburn  
 Martin, E. D. ....Marshall  
 McGuire, Dr. M. S. ....Arrow Rock  
 McKeever, Jno. J. ....Shackelford  
 Murrell, Len .....Napton  
 Napton, W. B. ....Marshall  
 Neville, Percy .....Marshall  
 Parkhurst, Albert E. ....Sweetsprings  
 Parrish, Ella .....Miami  
 Potter, Chas. ....Marshall  
 Price, Mabel .....Slater  
 Rainey, W. E. ....Marshall  
 Redman, James .....Marshall  
 Robertson, Geo. G. ....Marshall  
 Shepard, F. O. ....Arrow Rock  
 Stean, Sadie M. ....Arrow Rock  
 Stouffer, Dr. J. M. ....Napton  
 Striker, Herbert .....Marshall  
 Striker, W. M. ....Marshall

Thompson, Lucian .....Slater  
 Todd, Annie S. ....Marshall  
 Trigg, A. J. ....Marshall  
 Troy, G. C. ....Slater  
 Wheeler, Sidney J. ....Miami  
 Wilson, Dr. F. M. ....Marshall  
 Young, Phylander .....Miami

#### Schnyler County.

Cripps, A. D. ....Queen City  
 Crump, Rosa .....Lancaster  
 Eason, Reverdy .....Lancaster  
 Fogle, C. C. ....Lancaster  
 Justice, A. A. ....Lancaster  
 Minear, Isaac .....Lancaster  
 Morris, D. E. ....Lancaster  
 Murrell, Chas. E. ....Queen City  
 O'Briant, Irvin .....Lancaster  
 Shafer, F. C. ....Lancaster

#### Scotland County.

Barnes, Robert M. ....Memphis  
 Boyd, J. O. ....Memphis  
 Brainard, Dr. E. C. ....Memphis  
 Briggs, Lee R. ....Memphis  
 Cox, E. A. ....Rutledge  
 Foster, Maude .....Memphis  
 Hitch, Ruth .....Memphis  
 Holley, Gale .....Memphis  
 Martin, Albert .....Hitt  
 Roberts, L. P. ....Memphis  
 Sanders, J. L. ....Memphis  
 Schenck, David Jr. ....Memphis  
 Schenck, J. Adam .....Memphis  
 Simon, Chas. G. ....Memphis  
 Smoot, Hudson V. ....Memphis

#### Scott County.

Anderson, Ed. ....Commerce  
 Beardsley, Jno. ....Commerce  
 Duckworth, Joseph A. ....Oran  
 Frazer, Dr. T. R. ....Commerce  
 Fullenwider, Lloyd .....Sikeston  
 Heisserer, Mike .....Benton  
 Hunter, Louis L. ....Morley  
 Hunter, Steve B. ....Sikeston  
 Hutton, Dr. W. S. ....Kelso  
 Moore, Jos. L. ....Commerce  
 Vogt, E. D. ....Commerce  
 Wylie, Chas. M. ....Commerce

#### Shannon County.

Lovan, L. S. ....Winona  
 Meeker, David .....Birch Tree  
 Osborn, F. P. ....Gomez  
 Searcy, J. B. ....Eminence  
 Sizemore, G. S. ....Eminence

#### Shelby County.

Baker, Alice .....Shelbina  
 Bates, Mabel .....Shelbina  
 Bodine, C. P. ....Shelbina  
 Bragg, Walter .....Shelbina

Chick, Alice .....Shelbyville  
 Dobyn, Ida .....Shelbina  
 Goodson, Abbie .....Shelbyville  
 Jewett, E. W. ....Bethel  
 Jewett, H. H. ....Shelbina  
 Jewett, Ida .....Shelbina  
 Jewett, Martha .....Shelbina  
 Lasley, Roy D. ....Shelbina  
 Love, Roy Homer .....Clarence  
 Manuel, Mary .....Clarence  
 Maupin, Dr. Robert .....Cherrybox  
 McNeill, Bettie T. ....Shelbyville  
 Miller, Mary .....Shelbina  
 Minter, Mrs. D. G. ....Shelbina  
 Mitchell, W. W. ....Shelbyville  
 Ried, C. L. ....Shelbina  
 Willis, B. T. ....Shelbina  
 Wood, Jno. H. ....Shelbina

#### Stoddard County.

Alexander, Harry E. ....Bloomfield  
 Bailey, R. E. ....Bloomfield  
 Buck, Charles .....Bloomfield  
 Buck, J. B. ....Bloomfield  
 Covington, Ruth O. ....Dexter  
 Hodge, W. L. ....Bloomfield  
 Houck, Geo. Jr. ....Bloomfield  
 Hughes, H. M. ....Bloomfield  
 Hughes, Isaac H. ....Bloomfield  
 McCarroll, Ben .....Bloomfield  
 Richardson, Mack .....Bloomfield  
 Smith, Wm. F. ....Essex  
 Weber, Franz .....Bloomfield  
 Welborn, A. T. ....Bloomfield  
 White, Addie .....Zadock  
 Winchester, Luther .....Essex

#### Stone County.

Peters, Albert .....Crane  
 Watkins, Joseph C. ....Galena

#### Sullivan County.

Carmack, J. A. ....Bute  
 Ford, J. E. ....Osgood  
 Nelson, Earl F. ....Milan  
 Vance, Ina M. ....Wintersville

#### Taney County.

McKnight, J. C. L. ....Forsyth

#### Texas County.

Barton, W. E. ....Houston  
 Carter, A. L. ....Roby  
 Covert, C. E. ....Houston  
 Craven, Wesley .....Licking  
 Murrell, Riley .....David  
 Riggs, W. A. ....Houston  
 Windsor, I. N. ....Licking  
 Young, J. D. ....Houston

#### Vernon County.

Atkinson, E. K. ....Nevada  
 Atkinson, Sam .....Nevada



Birdseye, Fred ..... Nevada  
 Blevins, J. Rusk ..... Moundville  
 Clack, James M. .... Nevada  
 Coil, Jas. N. .... Nevada  
 Dade, W. D. .... Schell City  
 Dale, F. H. .... Nevada  
 Davis, George ..... Avola  
 Diggs, Nellie ..... Sheldon  
 Edwards, G. D. .... Nevada  
 Edwards, Mrs. G. D. .... Nevada  
 Gordon, Irvin ..... Nevada  
 Graves, C. H. .... Nevada  
 Haynes, Frederick E. .... Nevada  
 Johnson, J. B. .... Nevada  
 Key, Wm. C. .... Nevada  
 Lacaff, Florian L. .... Nevada  
 Robinson, Dr. J. F. .... Nevada  
 Robinson, J. F. .... Nevada  
 Smith, Judson W. .... Nevada  
 Swearingen, Ethel B. .... Nevada

#### Warren County.

Boehmer, F. A. .... Warrenton  
 Bohn, Edward W. .... Truesdale  
 Bohn, E. W. .... Warrenton  
 Fuesmeier, E. A. .... Wright City  
 Graham, Dr. A. W. .... Warrenton  
 Graham, Mrs. A. W. .... Warrenton  
 Morse, W. S. .... Warrenton

#### Washington County.

Breckenridge, Adella M. .... Caledonia  
 Cole, Chas. A. .... Quaker  
 Cole, Norman J. .... Quaker  
 Cole, Winfred B. .... Quaker  
 Dent, Wm. J. .... Caledonia  
 Tennyson, Luther W. .... Irondale  
 Williams, F. E. .... Belgrade

#### Wayne County.

Atkins, Emma ..... Wayne County  
 Clubb, J. K. .... Greenville  
 Davis, Dr. Chas. .... Hiram  
 Davis, R. H. .... Greenville  
 Davis, R. H. .... Piedmont  
 Harvey, Alice ..... Wayne County  
 Krimminger, Octa ..... Wayne County  
 Sheets, Merit M. .... Wayne County  
 Ward, R. L. .... Greenville  
 Withers, Myra ..... Wayne County

#### Webster County.

Beazley, Louis ..... Seymour  
 Case, Jas. .... Marshfield  
 Davis, A. H. .... Seymour  
 Garner, Jos. R. .... Niangua  
 Haynes, J. E. .... Marshfield  
 Jennings, Franklin E. .... Seymour  
 McMahan, Wm. T. .... Seymour  
 Newton, Dora ..... Seymour  
 Smith, J. P. .... Marshfield  
 Whittenburg, Thos. P. .... Niangua

#### Worth County.

Kelso, Edward ..... Grant City  
 Roberts, W. Ray ..... Allendale  
 Stark, Elizabeth L. .... Grant City  
 Wilkinson, Della ..... Allendale  
 Willhite, Alma Z. .... Grant City  
 Willhite, Ethel B. .... Grant City  
 Willhite, Frank ..... Grant City  
 Willhite, J. V. .... Grant City

#### Wright County.

Bailey, Arthur ..... Mountain Grove  
 Edwards, Chas. H. .... Hartville  
 Garner, E. B. .... Hartville  
 Hensley, Albert. .... Grovespring  
 Hoag, Wm. B. .... Mountain Grove  
 Hunter, Geo. .... Mansfield  
 Hunter, Luther ..... Hartville  
 Lynch, Florence ..... Mountain Grove  
 Meador, J. Frank. .... Mountain Grove  
 Moore, Jno. .... Hartville  
 Murrell, G. C. .... Hartville  
 Murrell, N. A. .... Hartville  
 Newton, C. A. .... Manes  
 Steele, Howe ..... Hartville  
 Walker, T. J. .... Norwood  
 Wood, James M. .... Boyer  
 Wood, Mrs. Lela ..... Hartville

#### St. Louis City.

Allee, W. L. .... Marion-Sims Medical College  
 Anderson, Mark M. .... Missouri Trust Bldg.  
 Arnold, Mercer ..... Holland Bldg.  
 Ash, R. L. .... 1333 Washington Ave.  
 Atwood, Dr. Le Grand—414 Washington Avenue.  
 Ballard, Vassie. .... St. Louis  
 Barth, Irvin V. .... 902 Rialto Bldg.  
 Barton, Joseph ..... St. Louis  
 Bean, W. T. .... 4217 Cook Ave.  
 Becker, Amanda F. .... 3110 Cass Ave.  
 Beckers, C. H. L. .... St. Louis  
 Bennett, F. W.—Marion-Sims Medical College.  
 Bird, Dr. R. L. .... St. Louis  
 Bishop, John E. .... Laclede Bldg.  
 Bissett, C. A. .... 420 Security Building  
 Black, A. G.—Washington University Law School.  
 Blaisdell, C.—4010 McPherson Ave., Pastor Holy Communion church.  
 Elanton, David A. .... West End Hotel  
 Bogy, J. F. .... St. Louis  
 Bohnenkamp, W. L. .... 335 Laclede Bldg.  
 Bolton, Mrs. Letitia ..... St. Louis  
 Bond, Thomas. .... 3744 Washington Blvd.  
 Bradley, Dr. A. H. .... 1019 N. 21st St.  
 Bradley, Harry E. .... St. Louis  
 Brent, Arthur W. .... State National Bank  
 Brown, Dr. M. F. .... St. Louis  
 Browning, Arthur ..... St. Louis  
 Brown, N. S. .... Administration Bldg.  
 Buckner, S. .... St. Louis

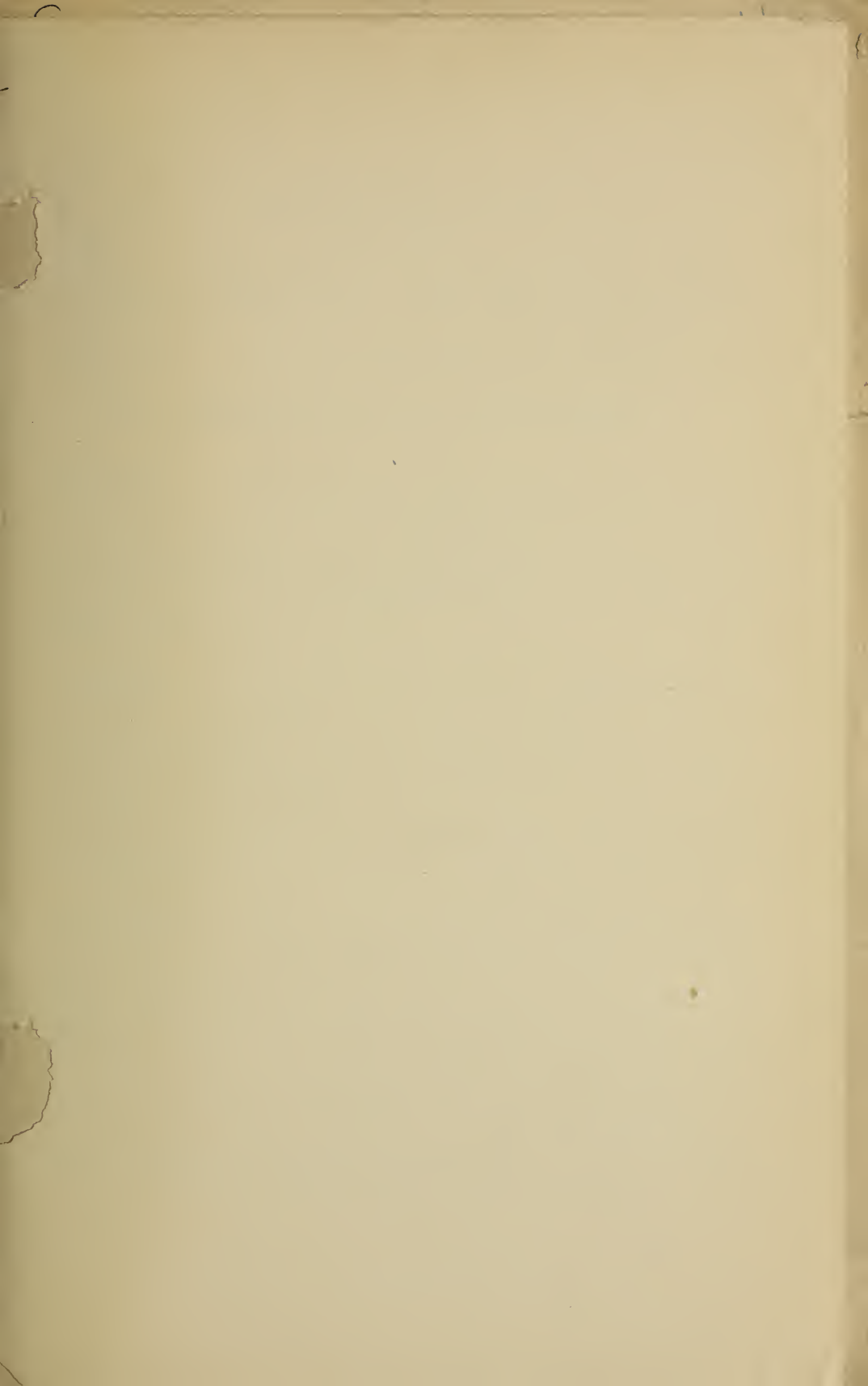
- Bunch, Roy L....3919 Kennerly Ave.  
 Burchard, M. H. ....St. Louis  
 Burchard, S. W. ....6700 Odell St.  
 Butler, I. J. ....4028 N. Grand Ave.  
 Byers, Charles E.—Woodward-Tiernan  
 Eng. Co.  
 Caldwell, Robert—Administration Bldg.,  
 World's Fair.  
 Campbell, Sam—Marion-Sims Medical  
 College.  
 Campbell, W. S. ....340 Laclede Bldg.  
 Cartrig't, H. T. ....5025 Cabanne Ave.  
 Case, Clarence G....Equitable Bldg.  
 Christine, Mrs. Josephine ....St. Louis  
 Chubbuck, Levi ....St. Louis  
 Colman, Hal ....St. Louis  
 Cooper, J. Q.—Marion-Sims Medical Col-  
 lege.  
 Cowran, J. F. ....457 Laclede Bldg.  
 Craven, W. R. ....St. Louis  
 Davis, Sydney E. ....11 S. 10th.  
 DeBolt, Coralie ....St. Louis  
 De Vilbiss, E. F.—Marion-Sims Medical  
 College.  
 Dodge, E. C. ....202 Commercial Bldg.  
 Downing, Eleanor J. ....St. Louis  
 Duncan, Dr. J. H....6 Century Bldg.  
 Dysart, Tom N. ....St. Louis  
 Edwards, George L....724 Rialto Bldg.  
 Edwards, Waller.....301 City Hall  
 Eppes, T. J. ....St. Louis  
 Evans, Luke ....2929 Dayton St.  
 Evers, Helen M. ....St. Louis  
 Fach, Charles A. ....32 Portland Place  
 Fisher, Russell.....21st & Wash Sts.  
 Fitch, Norwood..3d Floor Rialto Bldg.  
 Ford, Rev. Samuel H.....215 Pine St.  
 Forsyth, Dr. Robert C.—Physicians Fe-  
 male Hospital.  
 Fowler, Thomas R.—Kinloch Telephone  
 Company.  
 Fulton, Dr. A. L....617 Chouteau Ave.  
 Gabewod, Wm. C....Equitable Bldg.  
 Galbert, Charles....4871 Fountain Ave.  
 Gallant, C. L....Mermod-Jaccard Bldg.  
 Gannaway, E. C....6205 Elizabeth Ave.  
 Gardner, A. E. L....Century Bldg.  
 Garret, Jno. T. ....Koken Bldg.  
 Carrett, R. C. ....5262 Maple Ave.  
 Gatewood, Wm. O....Equitable Bldg.  
 Gentry, Wm. R.—Continental Bank  
 Bldg.  
 Gerling, August H.—Benj. J. Strauss &  
 Co., 9th & Washington.  
 Gerling, Prof. H. J....3908 Russell Ave.  
 Gillaspy, E. T....4529-a Labadie Ave.  
 Gladney, F. Y.—Commonwealth Trust  
 Bldg.  
 Gordon, M. F. ....St. Louis  
 Gore, A. E....Marion-Sims Medical College  
 Gorin, Dr. M. G....4225 West Belle  
 Gottschalk, Max W....4020 Iowa Ave.  
 Grady, R. F....5815 Manchester Ave.  
 Granger, Owin W....5899 Easton Ave.  
 Graves, J. W....27 Nicholson Place  
 Gruner, Caroline F. ....St. Louis  
 Guitar, Odon.....817 Chestnut St.  
 Hamilton, Charles M. ....St. Louis  
 Hardy, Dr. J. B....1316-a N. Grand  
 Harn, Wm. L....1321 Bayard Ave.  
 Harn, William S. ....St. Louis  
 Harrington, E. C....3111 Nebraska Ave.  
 Harris, Dr. Maurice B....Chemical Bldg.  
 Harris, Dr. M. B. ....St. Louis  
 Harrison, John W....318 N. 8th St.  
 Harris, Virgil M....Mercantile Trust Co.  
 Haverstick, A. J....421 Olive St.  
 Haverstick, Dr. E. E....346 N. Boyle  
 Haydon, Curtis ....6-142 Laclede Bldg.  
 Haywood, L.....2813 Locust Street  
 Henderson, Dr. Frank L.—Century  
 Bldg.  
 Henderson, Judge Jas. A...411 Olive St.  
 Henderson, W. W....5600 Cabanne  
 Hilgeman, H. B. ....St. Louis  
 Hilkerbaumer, Wm....Laclede Bldg.  
 Hill, Curtis.....4420 Greer Ave.  
 Hockensmith, Roy A.—Administration  
 Bldg., World's Fair.  
 Hogan, Rex.....Century Bldg.  
 Horner, Edward P....104 S. Main  
 Horner, W. A....5056 Morgan  
 Hough, Judge Warwick....Court House  
 Howe, Alphonse..302 Commercial Bldg.  
 Howsen, K. H....2853 Allison Place  
 Hunter, R. H. ....St. Louis  
 Hutchings, Mrs. Emily ....St. Louis  
 Irish, Dr. T. J. ....St. Louis  
 Irvine, G. A. ....St. Louis  
 Johnson, O. T....4028 Junata  
 Johnston, Mrs. Florence ....St. Louis  
 Johnston, Rev. J. T. M.—4308 Washing-  
 ton Blvd.  
 Jones, F. K.—(Asst. Cashier) Bank of  
 Commerce Bldg.  
 Jones, Wm. T....Simmons Hardware Co.  
 Kasel, A. C....3631 Dodder St.  
 Kennard, R. O. ....St. Louis  
 Kennedy, Gertrude ....St. Louis  
 Kieffer, V. B....Barnes Medical College  
 Kimmel, Karl.....Fullerton Bldg.  
 Kirchner, Miss E. C. ....St. Louis  
 Kistler, H. D.—Marion-Sims Medical  
 College.  
 Krone, C. F....610 Wainwright Bldg.  
 Laeuft, Walter F. ....St. Louis  
 Langenburg, Emma ....St. Louis  
 Ledwidge, Una M. ....St. Louis  
 Lewis, Floyd.....4190 West Belle  
 Lewis, P. L....1305 Chemical Bldg.  
 Loeb, Dr. Clarence....2715 Locust St.  
 Loeb, Dr. H. W....3559 Olive  
 Loeb, Virgil.....5673 Cabanne  
 Logan, E. E....Missouri Trust Bldg.  
 Lubke, G. W., Jr.....706 Chestnut  
 Lyman, F. S....4263 Morgan  
 MacKline, W. R....Chemical Bldg.  
 Marshall, C. A....319 N. 4th St.

- Marshall, F. E.—National Bank of Commerce.
- Martin, Charles P. ....St. Louis
- Massengale, J. R. ....407 N. Broadway
- McCaslin, Frank. ....623 Wainwright Bldg.
- McConathy, Mildred. ....3756 Cook Ave.
- McFarlane, Roy .....St. Louis
- McIntyre, J. S. ....8-182 Laclede Bldg.
- Merryman, Frank .....St. Louis
- Meyer, Dr. J. S. ....4319 Lindell Blvd.
- Meyer, Emil Y. ....Fullerton Bldg.
- Milbank, George. ....1333 Washington Ave.
- Miller, Fleet .....St. Louis
- Miller, Franklin. ....700 Carleton Bldg.
- Moberly, Victor. ....3024 Locust St.
- Mobrey, Thos. W. ....1366 Burd Ave.
- Moore, George H. ....328 Laclede Bldg.
- Moore, Washington .....St. Louis
- Moore, W. D. ....1418 Wittenberg Ave.
- Morris, Dr. C. C. ....2945 Franklin Ave.
- Nalley, Thomas .....St. Louis
- Nifong, Dr. F. ....St. Louis
- Ohmann-Dumesnil, Dr. A. H.—5 South Broadway.
- Palmer, W. A. ....St. Louis
- Paquin, Dr. Ozias. ....2747 Olive St.
- Parker, Harry .....St. Louis
- Peck, John. ....Strauss & Stumer
- Peers, E. P. ....3404 Morgan St.
- Peper, O. D. ....3116 Sheridan Ave.
- Pew, Emmett. ....1031 S. 12th St.
- Phillips, Hiram. ....301 City Hall
- Phillips, Mary F. ....St. Louis
- Phillips, R. H.—720 Lincoln Trust Bldg. (World's Fair.)
- Pinkley, R. H. ....4263 Morgan St.
- Pippin, B. N. ....619 N. Ewing Ave.
- Place, A. H. ....Lewis & O'Fallon Sts.
- Pollard, George S. ....3522 Hartford St.
- Potter, Dr. Peter—Marion-Sims Medical College.
- Potter, E. O. ....2016 Lucas Ave.
- Powell, Walbridge—St. Louis Smelting & Ref. Co.
- Pratt, Clara L. ....St. Louis
- Price, Celsus. ....2913 Washington Ave.
- Quinn, Dr. A. T. ....6534 Bradley Ave.
- Rader, L. W. ....4854 Fountain Ave.
- Randolph, W. F. ....3855 Windsor Place
- Rathman, C. G. ....2886 Hartford St.
- Raye, J. P. ....1400 N. Grand Ave.
- Rippey, J. D. ....Holland Bldg.
- Robertson, G. A. ....Lewis & O'Fallon Sts.
- Robinson, E. N. ....623 Security Bldg.
- Ruge, Dr. J. P. ....St. Louis
- Russell, Jas. Luke. ....4232 Castleman Ave.
- Russell, Thos. A. ....219 N. 4th St.
- Russler, Dr. J. J.—St. Mary's Infirmary
- Sadler, Norman .....St. Louis
- Salmon, M. K. ....Mercantile Trust Co.
- Senseny, Dr. E. M. ....St. Louis
- Shields, Wm. ....728 Carpenter Place
- Skelley, J. W. ....St. Louis
- Smiley, G. B. ....4755 Easton Ave.
- Smith, E. D. ....3622 West Pine St.
- Smith, Dr. Clyne—St. Mary's Infirmary
- Spencer, R. P. ....605 Equitable Bldg.
- Steinkamp, Wm. ....509 Chestnut St.
- Steltmeier, F. C. ....807 Carleton Bldg.
- Strickland, G. W. ....722 Chemical Bldg.
- Stewart, Burns—Union Electric Light Co.
- Switzler, R. H.—St. L. Cold Storage & Ref. Co., Lewis & O'Fallon Sts.
- Switzler, Wm. F., Jr.—Bradstreet Agency.
- Taake, E. F.—Marion-Sims Medical College.
- Talbert, Charles .....St. Louis
- Taylor, Thomas J. ....4106 N. Broadway
- Taylor, Watson A. ....Laclede Bldg.
- Thompson, Dr. G. H. ....St. Louis
- Thompson, Frank .....St. Louis
- Thompson, Guy A. ....Equitable Bldg.
- Tipton, Sam M. ....Tennent Shoe Co.
- Titworth, Guy—Marion-Sims Medical College.
- Truitt, Clarence. ....4547 Page Ave.
- Walker, R. F. ....942 Rialto Bldg.
- Wall, E. E. ....4520 Ferdinand Ave.
- Walters, W. W. ....1337 Union Blvd.
- Walton, S. J. ....620 Rialto Bldg.
- Warren, Mrs. John. ....St. Louis
- Waterworth, E. B.—3800 Washington Blvd.
- Watson, S. L. ....1333 Washington Blvd.
- Welch, Aikman—Wainwright Bldg.
- Weigle, Wm. ....4109 Manchester Ave.
- Weltner, Frank. ....3544 Page Ave. (Lincoln Trust Bldg.)
- Wilhelmi, W. C.—Marion-Sims Medical College.
- Williams, A. G. ....3857 Delmar Blvd.
- Williams, D. E. ....3655-a Shenandoah
- Wilson, O. A. ....St. Louis
- Woods, Richard H.—Lewis & O'Fallon Sts.
- Wright, C. O. ....St. Louis
- Young, Charles E. ....809 Clarendon Ave.
- Young, Upton M. ....St. Louis
- Zelle, C. E. ....Peters Shoe Co.













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UNIVERSITY OF ILLINOIS

# BULLETIN OF THE UNIVERSITY OF MISSOURI

VOL. V.

JUNE, 1904.

NO. 6.

## DEPARTMENT OF MEDICINE

### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, which is now a beautiful city of 7,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad, and also on the Missouri, Kansas & Texas. The cornerstone of the main building was laid 4 July, 1840. The School of Mines, a Department of the University, was located at Rolla, Missouri, in 1870.

### Resources.

Our buildings, grounds, books, and other equipment are valued at more than \$1,600,000, not including the campus, or the grounds for Botany, Horticulture, and Agriculture. The endowment (interest at 5 or 6 per cent), is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is about \$38,150 a year. Moreover, the Legislature makes appropriations biennially. There is some income from fees for the libraries and laboratories. There are 47,107 acres of unsold land. A State Collateral Inheritance Tax gives us about \$120,000 a year. The income of the whole University, for all sources and for all departments, is about \$400,000 a year.

### Free Tuition. Expenses.

Tuition is free in all Departments—Graduate, Academic, Teachers College, Medicine, Law, College of Agriculture, Engineering, School of Mines. In all these Departments, except Law and Medicine, the only charges are a library fee of \$5.00 a session and small laboratory deposits covering the cost of materials used by the students. In Medicine the only charge is a library fee of \$10 a year and small laboratory deposits. In Law, the only charge is a library fee of \$10.

The expenses for room, board, books, and fees vary. For Medical students who board in our club houses these expenses need not exceed \$150, nor more than \$200 a year for those who board in

private families. The fees in some colleges and universities will bear all expenses here.

### **Buildings.**

Medical Laboratories, Hospital, Chemical Laboratory, Laboratory of Physics, Laboratory of Zoology and Embryology, Academic Hall, Laboratory of Botany Entomology and Horticulture, Greenhouse, Agricultural Hall, Dairy Laboratory, Live Stock Laboratory, Agricultural Farm buildings, Engineering Laboratory, Mechanic Arts Hall, Observatory, Law Building, Power House, three Dormitories, and President's house. We expect this summer to lay the foundation of a new Gymnasium. Our School of Mines has seven buildings besides those mentioned above.

### **Libraries.**

We have a library for general readers and several department libraries for advanced students. These libraries contain 65,000 bound volumes and 30,000 pamphlets. Moreover, the collections of the State Historical Society, 23,000 entries, in Academic Hall, are accessible to our students.

### **Laboratories and Museums.**

There are at Columbia museums of Archæology, Art, Zoology, Geology, and Agriculture, many laboratories of science and technology, five rooms for drawing and designing, and several shops. At our School of Mines there are several laboratories and drawing rooms and shops. Of the \$252,000 expended for new buildings in 1902, \$154,000 went for laboratory buildings. Nearly \$60,000 more were spent for their better equipment with apparatus. Thus about \$214,000 were invested that year in better facilities for our laboratory work. The expenditures in 1903 were liberal.

### **Women Admitted.**

All Departments are open to women. A suite of rooms in Academic Hall, comfortable, beautifully furnished, and strictly private, is reserved for their special use. These rooms are presided over by a matron. Read Hall, the new Dormitory for women, which was opened 1 September, 1903, is in charge of Miss Lewis, the Adviser of Women.

### **Requirements for Entrance.**

A good high school education, or its full equivalent, is demanded for admission. Those who can not present diplomas from accredited secondary schools will be examined by the professors of our Academic Department. Moreover, the applicant must submit evidence of good moral character. All applications for entrance to any department should be addressed to "The Committee on Entrance, University of Missouri, Columbia, Mo."

### **Religious Influences.**

Almost all denominations are represented at Columbia. The city is notable for the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the Young Women's Christian Association. There is a students' prayer meeting every week. Prayers by officers of the University also are held every morning. Attendance upon religious exercises is voluntary. The Bible classes on Sunday mornings are astonishingly large.



**Debates and Athletic Sports.** Our students have teams for foot ball, base ball, basket ball, track athletics, and lawn tennis. There is a Gymnasium for men and another for women. The Athletic Field and the Golf Links are excellent. Much success has attended our contestants in inter-collegiate debates.

**Enrollment.** The students of the University come from almost every county in Missouri. Fifty-three states, territories, and foreign countries were represented during the session of 1903-1904 by 1649 students.

**Opportunities in Missouri.** Missouri contains 69,415 square miles—nearly 3,000 more than New England. The population is 3,106,665. While the development of its resources has scarcely begun, Missouri is the fifth state in the union in population, in wealth, and in agriculture, and the seventh in manufactures. For mining it is justly famous. It is a land of opportunity for enterprising young men. The best introduction to any state is through its university.

### MEDICAL DEPARTMENT

The Medical Department of the University, was organized at Columbia in 1872, and instruction was begun in February, 1873. In 1903-4 the number of medical students enrolled was 98. Our Medical Department is a member of the Association of American Medical Colleges.

The course of instruction, graded, lasts for four years (36 months). It is our policy to encourage in every way the gaining of a liberal education as a preparation for medicine. We *require* a good high school education for admission. Students who expect to study medicine are *strongly urged* to take first a scientific course in the Academic Department (College of Arts).

The Rollins Scholarship in the Department of Medicine is a prize of fifty dollars which is awarded to that member of the Junior (Third Year) class who has made the best record during the course.

**Medical Laboratories.** A large building devoted entirely to medical laboratories was completed early in 1903. This building brings together the lecture rooms, laboratories, and offices for Anatomy, Histology, Physiology, Pathology, Bacteriology, Hygiene, Pharmacology, Physiological Chemistry, Surgery, and Internal Medicine. Animal rooms, aquaria, mechanic's shop, and special research rooms are provided. There is a cold storage plant for anatomical and pathological preparations. Our laboratories of Embryology, Neurology, Chemistry, and Physics are close by. The State Board of Health has in one of the University buildings a laboratory, well equipped, in charge of an expert in Bacteriology and Hygiene. All these laboratories are in charge of men who, supported by salaries, devote themselves to teaching, writing, and research. There are about twenty-five of them all told. No man can conduct one of these laboratories up to modern demands and practice medicine. Wherever the attempt is made, the laboratory

work suffers. In 1902, we spent nearly \$50,000 in better provision for our Medical Department, and other sums in 1903. The equipment alone of the laboratories mentioned above has cost more than \$50,000, and the buildings \$175,000 more. Among the laboratories is included our Hospital.

A. W. McAlester, M. D... Superintendent and Surgeon  
**Parker Memorial Hospital.** Woodson Moss, M. D..... Attending Physician  
 W. J. Calvert, M. D... Laboratory of Internal Medicine  
 Guy L. Noyes, M. D... Ophthalmologist and Otologist  
 Max W. Meyer, M. D..... Gynecologist and Obstetrician  
 Walter McNab Miller ..... Pathologist  
 Clarence A. Good, M. D..... Resident Physician  
 T. E. Moore, M. D..... Interne  
 Harry R. Haas, M. D..... Interne  
 Sophie Evans..... Superintendent of Training School for Nurses

This is a State Hospital, on the campus, owned and controlled by the University, open to the sick of Missouri, and designed for the treatment of accidents, of acute and subacute diseases, and of chronic curable diseases. It has a capacity of 50 beds. Cases of incurable or contagious diseases, or of acute alcoholism will not be admitted. An out-patient clinic is established in Eye, Ear, Nose, and Throat; in Internal Medicine; in Surgery; and in Obstetrics and Gynecology. Students have opportunity for observing and treating patients in these clinics. The classes, in small sections, work always under the direction and criticism of the Instructor in charge.

By the gift of Adolphus Busch a handsome Clinical Amphitheatre is provided adjoining the Hospital. The seating capacity is about 100. In the basement of the Amphitheatre a number of commodious rooms are provided for Dispensary Clinics.

Public wards, \$7 a week; single rooms, \$15 a week. These charges include board and ordinary nursing and medicines. Operative cases are subject to extra charge for surgical dressings, etc. A limited number of private cases are received, at the rate of \$15.00 a week and upwards for ordinary medicines, nursing, and board. Private cases may be required to pay a fee to the attendant physician or surgeon. A limited number of free beds are open to patients, applications for which must be made in advance to the Superintendent of the Hospital.

### Training School for Nurses.

Connected with the Hospital is a Training School for Nurses in which a systematic course of study for three years is given to young women desirous of becoming professional nurses.

### Catalogue.

If this circular interests you, write for a catalogue of the whole University, or of the Medical Department, to the Publisher, "Fred Kelsey, Columbia, Missouri." If you are thinking seriously of entering the University and wish to see plates of its buildings, these too will be sent you.

For further information address the Dean,

A. W. McALESTER, M. D.,  
 Columbia, Mo.

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 UNIVERSITY OF ILLINOIS

# BULLETIN

OF THE

# UNIVERSITY OF MISSOURI

VOL. V.

JULY, 1904.

NO. 7.

## CIRCULAR OF INFORMATION.

### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, now a beautiful town of 7,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad, and also on the Missouri, Kansas & Texas. The School of Mines, a Department of the University, was located at Rolla, Missouri, in 1870.

### Resources.

Our buildings, grounds, books, and other equipment are valued at more than \$1,600,000, not including the campus, or the grounds for Botany, Horticulture, and Agriculture. The endowment (interest at 5 or 6 per cent), is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is about \$38,150 a year. The Legislature makes appropriations biennially. There is some income from fees for the libraries and laboratories. There are 47,427 acres of unsold land. A State Collateral Inheritance Tax yields about \$120,000 a year. The income of the whole University, from all sources and for all departments, has been, for some time, from \$400,000 to \$430,000 a year.

### Free Tuition. Expenses.

Tuition is free in all Departments—Graduate, Academic, Teachers College, Medicine, Law, College of Agriculture, Engineering, School of Mines. In all these Departments, except Law and Medicine, the only charges are a library fee of \$5.00 a session and small laboratory deposits covering the cost of materials used by the students. In Medicine the only charge is a library fee of \$10 a year and small laboratory deposits. In Law, the only charge is a library fee of \$10.

The expenses for room, board, books, and fees vary. For students that board in our club houses these expenses need not exceed \$150, nor more than \$200 a year for those who board in private families. The fees in some colleges and universities will bear all expenses here.

### Buildings.

Three Dormitories, President's house, Academic Hall, Laboratory of Geology and Zoölogy, Chemical Laboratory, Observatory, Power House, Engineering Hall, Engineering Laboratory, Mechanic Arts Hall, Agriculture



ral Hall, Dairy Laboratory, Live Stock Laboratory, Laboratory of Horticulture, Entomology and Botany, Greenhouse, Agricultural Farm buildings, Law Building, Medical Laboratory, Hospital. We expect this summer to lay the foundation of a new Gymnasium. Moreover, our School of Mines has seven buildings.

**Libraries.** We have a library for general readers and several department libraries for advanced students. These libraries contain 65,000 bound volumes and 30,000 pamphlets. Moreover, the collections of the State Historical Society, 23,000 entries, in Academic Hall, are accessible to our students.

**Laboratories and Museums.** There are at Columbia museums of Archæology, Art, Zoology, Geology, and Agriculture, many laboratories of science and technology, seven rooms for drawing and designing, and several shops.

The School of Mines has several laboratories and drawing rooms and shops. Of the \$252,000 expended for new buildings in 1902, \$154,000 went for laboratory buildings. Nearly \$60,000 more were spent for their better equipment. Thus about \$214,000 were invested that year in better facilities for our laboratory work and other sums in 1903.

**Faculties.** Our faculties contain, all told, more than 120 teachers. Our students come from almost every county in Missouri. Fifty-three states, territories, and foreign countries were represented here in the session of 1903-1904 by 1649 students.

**Women Admitted.** All Departments are open to women. A suite of rooms in Academic Hall, beautifully furnished, and strictly private, and in charge of a matron, is reserved for their special use. Read Hall, the new Dormitory for women, is in charge of Miss Lewis, the Adviser of Women.

**Requirements for Entrance.** A good high school education, or its full equivalent, and evidence of good character are demanded for admission to any department. Applications for admission should be addressed to "The Committee on Entrance, University of Missouri, Columbia, Mo."

**Religious Influences.** Almost all denominations are represented at Columbia, which is notable for the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the Young Women's Christian Association. There is a students' prayer meeting every week. Prayers by officers of the University are held daily. Attendance upon religious exercises is voluntary. An astonishing number of students voluntarily attend Bible classes.

**Debates and Athletic Sports.** Our students have teams for football, baseball, basketball, track athletics, and lawn tennis. There is a Gymnasium for men and another for women. The Athletic Field and the Golf Links are excellent. Much success has attended our contestants in inter-collegiate debates.

**Graduate Department.** To graduate students instruction is offered in Latin, Greek, Classical Archæology, English, Germanic Languages, Romance Languages, History, Sociology, Economics, Political Science, Philosophy, Experimental Psychology, Pedagogy, Mathematics, Zöol-

ogy, Botany, Chemistry, Geology, Physics, Physiology, Agriculture, Horticulture, and Engineering (Civil, Electrical, Mechanical, Sanitary, Chemical, Hydraulic and Mining). There are a number of Fellowships and Scholarships. Elective courses are offered leading to A. M., Ph.D., and to graduate degrees in Engineering.

**College.** Instruction is offered in English, Latin, Greek, Classical Archæology, History of Art, Freehand Drawing, Romance Languages, Germanic Languages, Elocution, Philosophy, Experimental Psychology, History, Economics, Political Science, Sociology, Pedagogy, Mathematics, Physics, Chemistry, Zoology, Botany, Physiology, Geology, and Astronomy. One undergraduate degree is conferred, requiring four years work, Bachelor of Arts (A. B.) All work in the college is elective.

**Teachers College.** Upon the completion of certain courses the student receives a Life Certificate, entitling him to teach without examination in any public school in Missouri. All the work in Education may be counted toward the degree of Bachelor of Science (in Education) and most of it, toward the degree of Bachelor of Arts. The University is the only institution in Missouri, where, at once, one may enjoy the range of college studies, get instruction in Pedagogy, and become expert in Shop Work, Sloyd, Mechanical Drawing, Freehand Drawing, Agriculture, Horticulture, Vocal Music, etc. There is a Practice School. This College, thoroughly reorganized, will be very effective next year.

**Engineering.** Courses are offered at Columbia leading to degrees in Civil, Electrical, Mechanical, Sanitary, Chemical, and Hydraulic Engineering. Mining Engineering and Metallurgy are taught at the School of Mines. Our facilities for teaching Engineering have been greatly increased in recent years, and in 1902 about \$44,000 was invested at Columbia in buildings, books, apparatus for Engineering, and about \$92,000 at our School of Mines. In addition to this we expended \$8,000 for waterworks on the campus, \$5,000 for a refrigerating machine, and \$7,000 for additions to our heating and lighting plant. All these things were adapted, so far as possible, to experimental as well as to practical use. Thus, in 1902, in the whole University, we spent the sum of \$156,000 for buildings, books, and instruments for Engineering and things auxiliary thereto, and other sums in 1903. We cannot satisfy the demand for our graduates.

**Law.** The course is three years long, leading to the degree of Bachelor of Laws. Our diploma admits to practice in all the courts of Missouri, both State and Federal. In addition to the professors of History, Economics, Political Science, Sociology, etc., there are four Professors of Law who devote themselves to teaching, writing, and research, besides a large staff of non-resident Lecturers. Our students are not taught by men wearied with practice in courts and offices. A Practice Court meets three times a week. No extra charge is made for any instruction that the student may receive in any other department. In 1902, \$7,000 was expended in additions to our law library, and as much more in 1903.

**Medicine.** The course consists of four years of nine months each—thirty-six months. Our laboratories of Internal Medicine, Surgery, Anatomy, Histology, Embryology, Neurology, Pathology, Bacteriology, Hygiene, Physiology, Physiological Chemistry, Pharmacology, Chemistry and Physics



are in charge of men that devote themselves to teaching, writing, and research. No man can conduct one of these laboratories up to modern demand and practice medicine. Whenever the attempt is made, the laboratory work suffers. There are animal rooms, aquaria, a mechanic's shop, research room, and a cold storage plant. The equipment alone of the laboratories named above has cost over \$50,000, and the buildings \$175,000 more. In the Parker Memorial Hospital, on our campus, with a capacity of 50 beds, the sick receive medical attendance and nursing at moderate charges. In 1902 we spent nearly \$50,000 in better provision for our Medical Department and other sums in 1903.

#### **College of Agriculture.**

This College has well-equipped laboratories for Agricultural Chemistry, Agronomy, Stock Judging, Animal Husbandry, Veterinary Science, Dairy Husbandry, Botany, Entomology, and Horticulture.

In each of these departments specialists devote their time to instruction and investigation. Several new teachers have been added, and about \$100,000 has been recently expended for buildings and equipment. The attendance in agriculture has increased greatly of late. The Experiment Station, a department of the College, is devoted to research for the benefit of the farmers. Its investigations in Texas Fever, cattle feeding, injurious insects, fruit growing, and market gardening have already saved the farmers of Missouri vast sums of money. The shops for Mechanic Arts are admirable. The farm contains 615 acres. We cannot satisfy the demand for our graduates.

#### **Mines and Metallurgy.**

Our School of Mines and Metallurgy at Rolla is one of the best. It has been growing in buildings, equipment, teachers and attendance. Courses are offered in Mining, in Metallurgy, etc. The special

catalogue of this Department will be sent upon application to the Director, "Dr. George E. Ladd, Rolla, Mo."

#### **Summer Session.**

The Summer Session, intended primarily for high school teachers, began 2 June, and will extend to 2 August. Courses are given in Agriculture; Botany, Chemistry, Economics, Education, English,

Freehand Drawing, French, German, Geology, Greek, History, Horticulture, Latin, Manual Training, Mathematics, Music, Physics, Physiology, and Zoology. If accredited here, the work is accepted by the State Superintendent of Public Schools. The fee is \$5. Special railroad rates.

#### **Catalogue.**

If this circular interests you, write for a catalogue of the whole University, or of any Department, to the Registrar, "Mr. Irvin Switzler, Columbia, Missouri." Persons thinking seriously of entering the University and wishing to see plates of its buildings, should write for them. If possible, see our great exhibit in the Education Building at the World's Fair at St. Louis.

R. H. JESSE, President.



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# BULLETIN

## OF THE

# UNIVERSITY OF MISSOURI

VOL. V.

AUGUST, 1904.

NO. 8.

### SCHOOL OF ENGINEERING.

#### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, now a beautiful city of 7,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad, and also on the Missouri, Kansas and Texas. The College of Engineering was founded at Columbia in 1877. The School of Mines, a Department of the University, was located at Rolla, Missouri, in 1870.

#### Resources.

Our buildings, grounds, books and other equipment, are valued at more than \$1,600,000, not including the campus, or the grounds for Botany, Horticulture, and Agriculture. The endowment (interest at 5 or 6 per cent) is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is about \$38,150 a year. The Legislature makes appropriations biennially. There is some income from fees for the libraries and laboratories. There are 47,427 acres of unsold land. A State Collateral Inheritance Tax gives us about \$120,000 a year. The income of the whole University, from all sources and for all departments, has been for some time from \$400,000 to \$430,000 a year.

#### Free Tuition. Expenses.

Tuition is free in all Departments—Graduate, Academic, Teachers College, Medicine, Law, College of Agriculture, Engineering, School of Mines. In all these Departments, except Law and Medicine, the only charges are a library fee of \$5.00 a session and small laboratory deposits covering the cost of materials used by the students. In Medicine the only charge is a library fee of \$10 a year and small laboratory deposits. In Law the only charge is a library fee of \$10.

The expenses for room, board, books, and fees vary. For Engineering students who board in our club houses these expenses need not exceed \$150, nor more than \$200 a year for those who board in private families. The fees in some colleges and universities will bear all expenses here.

**Buildings.** Engineering Hall, Engineering Laboratory, Power-house, Mechanic Arts Hall, Observatory, Chemical Laboratory, Laboratory of Geology and Zoology, Academic Hall, Agricultural Hall, Dairy Laboratory, Live Stock Laboratory, Agricultural Barns, Laboratory of Horticulture, Entomology and Botany, Greenhouse, Law Building, Medical Laboratory, Hospital, three Dormitories, President's House. We expect this summer to lay the foundation of a new Gymnasium. Moreover, our School of Mines has seven buildings.

**Laboratories.** There are at Columbia many laboratories of science and technology, rooms for drawing and designing, and several shops. The School of Mines has several laboratories and drawing rooms and shops. Of the \$252,000 expended for new buildings in 1902, \$154,000 went for laboratory buildings. Nearly \$60,000 more were spent for their better equipment. Thus about \$214,000 were invested that year in better facilities for laboratory work, and other sums in 1903.

**Libraries.** We have a library for general readers and several department libraries for professors and advanced students. These libraries contain 65,000 bound volumes and 30,000 pamphlets. Moreover, the collections of the State Historical Society, 23,000 entries, in Academic Hall, are accessible to our students.

**Faculties.** Our faculties contain, all told, more than 120 teachers. Thirteen Professors, Assistant Professors, and Instructors give their entire time to mechanics, mechanical drawing, shop work, civil, electrical, and mechanical engineering, and courses designed especially for engineering students are given by a number of other teachers.

**Enrollment.** Our students come from almost every county in Missouri. Fifty-three states, territories, and foreign countries were represented here in the session of 1903-1904 by 1,649 students. The enrollment at Columbia in Engineering has increased in six years from 66 to 274. We cannot satisfy the demand for our graduates.

**Requirements for Entrance.** A good high school education or its full equivalent and evidence of good character are demanded for admission. Those who cannot present diplomas from accredited secondary schools will be examined by the professors of our Academic department. Applications for admission should be addressed to "The Committee on Entrance, University of Missouri, Columbia, Mo."

**Religious Influences.** Almost all denominations are represented at Columbia, which is notable for excellent churches. The University has a zealous chapter of the Young Men's Christian Association, and one of the Young Women's Christian Association. There is a students' prayer meeting every week. Prayers by officers of the University are also held daily. Attendance upon religious exercises is voluntary. An astonishingly large number of students voluntarily attend Bible classes.



Our students have teams for football, baseball, basketball, track athletics, and lawn tennis. Debates and Athletic Sports. There is a Gymnasium for men and another for women. The athletic fields and the golf links are excellent.

There are fourteen literary and scientific societies among the students, including a flourishing "Engineers' Club." Much success has attended our contestants in intercollegiate debates.

Missouri contains 69,415 square miles—nearly 3,000 more than New England. The population is 3,106,665. While the development of its resources has scarcely begun, Missouri is the fifth state in the Union in population, in wealth, and in agriculture, and the seventh in manufactures. For mining it is justly famous. It is a land of opportunity for enterprising young men. The best introduction to any state is through its University.

### COLLEGE OF ENGINEERING.

Thorough courses are offered in Civil, Electrical, Mechanical, Sanitary, Hydraulic, and Chemical Engineering. The degrees of Bachelor of Science in Civil, Electrical, Mechanical, and Chemical Engineering, and the graduate degrees of Civil, Electrical, and Mechanical Engineering are conferred.

Three courses are given: one in Civil Engineering, leading to broad, general training; a course in Sanitary Engineering, with less attention to structural and railway work and more to sanitary subjects; a course in Hydraulic Engineering, giving special attention to hydraulic and irrigation problems. The department is equipped with a large number of surveying instruments, including 13 transits, 9 levels, 2 plane tables, 4 compasses, sextant, tapes, and small instruments, and for precise work, an 8-inch Fauth theodolite, Brandis triangulation transit, precise level, base apparatus, etc. The laboratory has a brick abrasion machine, 2 torsion machines, 3 testing machines for tension and compression, Olsen and Fairbanks cement machines, briquette press and mixer, boilers for steam tests, Vicat and Gilmore needles. For office work there are rolling and polar planimeters, a pantagraph, topographical protractors, stadia charts and slide rule, Thatcher calculating instrument, beam compass, etc. About 500 drawings of recent bridges, presented by Mr. T. J. Wilkerson (class of 1890) of Pittsburg, and a set of 130 drawings, carefully arranged, indexed, and presented by Dr. J. A. L. Waddell, illustrating recent practice in bridge design, are available for instruction.

This course is arranged to give fundamental training in Electrical Engineering, with as much as possible of the practical applications. Thoroughness in English, Chemistry, Physics, and Mathematics is insisted upon. The strictly technical studies include Elec-



trical Measurements, Electrical Machinery, Alternating Currents, Electrical Design, Transmission and Distribution, besides studies in Mechanical Engineering, and Surveying. A branch section of the American Institute of Electrical Engineers has been established and discussion of current literature is a feature of the work. The equipment consists of some 30 dynamos for laboratory work in direct and alternating currents; of apparatus for standardizing instruments, and for electrical testing; and of storage batteries, ammeters, voltmeters, wattmeters, tachometers, resistances, lamp banks, etc. An oscillograph and a high potential transformer are new additions.

### **Mechanical Engineering.**

This course prepares for any of the branches of Mechanical Engineering, giving a thorough foundation in the general principles and developing several important divisions. The study of engineering materials is applied to the designing of structures and machinery. The theory, as well as the practical operation, of machines is taught, in connection with the development, transference, and use of power. These principles are tested in the laboratory, which is equipped with various types of compound and simple engines, two-stage-duplex air compressor, compound duplex steam pump, steam pumps, power pumps, pulsometers, injectors, condensers, steam turbine, gas, oil, and hot-air engines, water wheels, and the necessary meters, gauges, weirs, and tanks. The work in the laboratory is done by the students, who make all arrangements and tests of apparatus. The problems in laboratory and class room are taken from practice.

### **Mechanics.**

A chair has been established for work in the Mechanics of Engineering, formerly given by the Professor of Mechanical Engineering.

### **Drawing.**

Instruction is given in Mechanical Drawing, Descriptive Geometry, Lettering, and Machine Drawing. All Engineering students are taught practical draughting-room methods as well as the making of accurate and comprehensive drawings.

### **Shops.**

The joinery, forge, pattern, and machine shops contain 1600 square feet of floor space each, and accommodate sections of twenty-four students. The machine shop is equipped with engine-lathes, shapers, power saws, drill presses, planers, grinder, milling, and screw machines. The underlying principles of production and installation are taught and also the limitations of materials and machines.

### **Catalogue.**

If this circular interests you, write for a catalogue of the University, to the Registrar, "Mr. Irvin Switzler, Columbia, Missouri." Persons thinking seriously of entering the University and wishing to see plates of its buildings, should write for them. If possible, see our great exhibit in the Educational Building at the World's Fair at St. Louis.

For further information address the Junior Dean,

H. B. SHAW,  
Columbia, Mo.

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# BULLETIN

OF THE

## UNIVERSITY OF MISSOURI

VOL. V.

SEPTEMBER, 1904.

NO. 9.

### COLLEGE OF AGRICULTURE.

#### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, now a beautiful city of 7,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad and also on the Missouri, Kansas & Texas. The College of Agriculture and Mechanic Arts was founded at Columbia in 1870 and in the same year the School of Mines and Metallurgy, a Department of the University, at Rolla, Missouri. The Experiment Station was established at Columbia in 1888.

#### Resources.

Our buildings, grounds, books, and other equipment, are valued at more than \$1,600,000, not including the campus, or the grounds for Botany, Horticulture, and Agriculture. The endowment (interest at 5 or 6 per cent) is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is about \$38,150 a year. Moreover, the Legislature makes appropriations biennially. There is some income from fees for the libraries and laboratories. There are 47,427 acres of unsold land. A State Collateral Inheritance Tax gives us about \$120,000 a year. The income of the whole University, from all sources and for all departments, has been for some time from \$400,000 to \$430,000 a year.

#### Expenses.

##### Free Tuition.

Tuition is free in all Departments—Graduate Department, College of Agriculture, Engineering, Academic, Teachers College, Law, Medicine, School of Mines. In all these Departments, except Law and Medicine, the only charges are a library fee of \$5 a year and small laboratory deposits covering cost of materials used by the students. The Library fee is \$10 for Law, and for Medicine \$10 a year, with small laboratory deposits.

The expenses for room, board, books and fees vary. For agricultural students who board in our club houses, these expenses need not exceed \$150, nor more than \$200 a year for those who board in private families. The fees in some colleges and universities will bear all expenses here.

## **Buildings.**

Agricultural Hall, Dairy Laboratory, Live Stock Laboratory, Agricultural Barns, Chemical Laboratory, Laboratory of Geology and Zoology, Laboratory of Horticulture Entomology and Botany, Greenhouse, Mechanic Arts Hall, Engineering Hall, Engineering Laboratory, Power house, Observatory, Academic Hall, Law building, Medical Laboratory, Hospital, three Dormitories, President's house. We expect this summer to lay the foundation of a new Gymnasium. Moreover, our School of Mines has seven buildings.

## **Faculties.**

Our Faculties contain, all told, more than 120 teachers.

## **Enrollment.**

Twenty-two men give their time to teaching and investigations in Agronomy, Agricultural Chemistry, Animal Husbandry, Veterinary Surgery, Dairy Husbandry, Horticulture, Entomology, Botany, Shopwork, and Drawing. Our students come from almost every county in Missouri. Fifty-three states, territories, and foreign countries were represented in the session of 1903-1904 by 1649 students.

## **Libraries.**

We have a library for general readers and several department libraries for advanced students. These libraries contain nearly 65,000 bound volumes and 30,000 pamphlets. Moreover the collections of the State Historical Society, 23,000 entries, in Academic Hall, are accessible to our students. The library is rich in publications pertaining to Agronomy, Agricultural Chemistry, Dairying, Veterinary Science, Horticulture, Entomology, and Botany.

## **Laboratories and Museums.**

There are at Columbia museums of Agriculture, Horticulture, and their products, of Geology, Zoology, Art, and Archaeology, many laboratories of science and technology, seven rooms for drawing and designing, and several shops. The School of Mines has several laboratories and drawing rooms and shops. Of the \$252,000 expended for new buildings in 1902, \$154,000 went for laboratory buildings. Nearly \$60,000 more were spent for their better equipment. Thus we spent about \$214,000 that year in better facilities for our laboratory work, and other sums in 1903. There are good laboratories for Agronomy, Agricultural Chemistry, Live Stock Judging, Animal Breeding, Veterinary Science, Dairying, Horticulture, Entomology, and Botany. The shops for Mechanic Arts are admirable. Instruction in Agronomy and Animal Husbandry is made efficient by the Experiment Station fields, the breeds of improved live stock, and the cattle feeding experiments. The students in Horticulture have the advantage of orchard plantings covering more than 30 acres of ground. The College Farm, comprising 615 acres, is used chiefly for instruction and for agricultural experiments. Here are the herds, the Barns, the Dairy Laboratory, the Live Stock Laboratory, and the work in Veterinary Science.

## **Requirements for Entrance.**

A good high school education, or its full equivalent, and evidence of good moral character are demanded for admission. Those who cannot present diplomas from accredited secondary schools will be examined by the professors of our Academic Department. Applications for admission should be addressed to "The Committee on Entrance, University of Missouri, Columbia, Missouri." For the short winter courses the only requirements are good character and a common school education.

## **Religious Influences.**

Almost all denominations are represented at Columbia, which is notable for the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association and one of the Young Women's Christian Association. There is a students'



prayer meeting every week. Prayers by officers of the University also are held daily. Attendance upon religious exercises is voluntary. An astonishing number of students attend Bible classes.

**Debates and Athletic Sports.** Our students have teams for football, baseball, basket ball, track athletics, and lawn tennis. There is a Gymnasium for men and another for women. The Athletic Fields and Golf Links are excellent. Much success has attended our contestants in inter-collegiate debates. Our students have a flourishing Agricultural Club, which has formed a Corngrowers' Association, and they have also a Botanical Society, which works chiefly in applied botany and horticulture. Our students edit and publish "The Missouri Agricultural College Farmer," an excellent paper.

**Women Admitted.** All Departments are open to women. A suite of rooms in Academic Hall, beautifully furnished, strictly private, and in charge of a Matron, is reserved for their special use. Read Hall, the new Dormitory for women is in charge of Miss Lewis, the Adviser of Women.

**Opportunities in Missouri.** Missouri contains 69,415 square miles, nearly 3,000 more than New England. The population is 3,106,665. While the development of its resources has scarcely begun, Missouri is the fifth State in the Union in population, in wealth, and in agriculture, and the seventh in manufactures. For mining it is justly famous. It is a land of opportunity for enterprising young men. The best introduction to any State is through its University. The demand for graduates of our College of Agriculture is far greater than the supply.

## COLLEGE OF AGRICULTURE.

**Agronomy.** Special attention is given to the study of soils, their origin, formation, distribution, and the relations thereof to fertility. The improvement of soils, methods of crop production, the selection of seed, plant breeding, the cultivation, harvesting, and disposition of crops, are thoroughly considered. The course is supplemented by experiments and demonstrations on the Farm and the Experiment Station Grounds.

**Animal Husbandry.** Thorough courses in stock breeding and in the history and development of breeds are given during the Sophomore year, and in the Junior year a course in Feeds and Feeding. Specimens of leading breeds of live stock are maintained for purposes of study. Important additions to the college herds have been made during the past year. Experiments in Feeding and Breeding are continually in progress. Much attention is given to the judging of animals for the selection of the best types.

**Veterinary Science.** Veterinary Science here deals chiefly with the hygienic treatment of farm animals and the prevention of diseases such as cholera, blackleg, glanders, tuberculosis, Texas fever, etc. In the Veterinary Clinics, students perform simple surgical operations.

**Dairying.** A thorough course is given in the handling of milk and butter and in the feeding and care of dairy cows. In the laboratory the milk is tested, and the cream is separated, ripened, and made into butter, always under the careful supervision of the Professor. The making of cheese receives special attention.

**Horticulture.** The Horticultural Department has well-equipped laboratories and large experimental orchards, which make possible good instruction in commercial and farm orcharding. The best methods of planting, cultivating, and pruning trees, and of marketing fruits are taught. Landscape gardening, the beautifying of home grounds, and Floriculture are prescribed subjects in the Agricultural course.

**Entomology.** Sufficient knowledge of systematic Entomology is given to prepare the student for identification of ordinary injurious insects. The insects which cause damage to farm and garden crops, and methods of combating their ravages receive special attention.

**Mechanic Arts.** Agricultural students get instruction in Carpentry and Blacksmithing in well-equipped shops, and this training is a valuable feature of the course.

**Experiment Station.** The investigations of our Experiment Station have already saved the farmers of Missouri vast sums of money. The results of investigations, published in bulletins, are sent free to all citizens of Missouri that ask for them.

**Short Winter Courses.** Many persons already engaged in Agricultural pursuits desire a better preparation for their work, but they do not feel justified in spending four years to get this training. For such, we offer short courses in Animal Husbandry, Plant Production, Dairying, and Horticulture. These courses begin about the first of January and continue eight weeks. The instruction is extremely practical and gives, in the time, the largest possible amount of technical instruction. The enrollment in these courses increased 66 per cent in 1904.

**Agriculture in Public Schools.** A number of teachers get instruction here in Agriculture and Horticulture every summer. At least 5,000 children in Missouri are learning this year these subjects because of the instruction given to teachers here. Our Teachers College, thoroughly re-organized, will work with the College of Agriculture to introduce these studies into the public schools. In this endeavor this University has led the State and perhaps the Union.

**Catalogue.** If this circular interests you, write for a catalogue of the whole University, or of the College of Agriculture, to the Registrar, "Mr. Irvin Switzler, Columbia, Missouri." Persons thinking seriously of entering the University and wishing to see plates of its buildings, should write for them. If possible, see our great exhibit in the Education Building at the World's Fair at St. Louis.

For further information, address the Acting Dean,

F. B. MUMFORD,  
Columbia, Mo.

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UNIVERSITY OF ILLINOIS

# BULLETIN OF THE UNIVERSITY OF MISSOURI

VOL. V.

NOVEMBER, 1904.

NO. 11.

## WHAT THE UNIVERSITY HAS DONE FOR MISSOURI.

The Legislative Act establishing the public school system was approved 9 February, 1839, and that establishing the University was approved 11 February, 1839. The University was located at Columbia, 24 June, 1839. The cornerstone of the Main Building was laid 4 July, 1840. Courses of instruction in Academic work were begun on 14 April, 1841. A Department of Education was established in 1867, and work began in September, 1868. In 1869 women were admitted first to this Department, in 1870 to the College, and soon after to all Departments. The College of Agriculture and Mechanic Arts and the School of Mines and Metallurgy were made Departments of the University in 1870—the School of Mines being located at Rolla. The Law Department was opened in 1872; the Medical Department in 1873; the Engineering Department in 1877. The Experiment Station was established, under act of Congress, 1888. The Missouri State Military School was created a Department of the University in 1890. In 1896 the Graduate Department was established.

In the spring of 1904 the Department of Education was completely re-organized and a Teachers College created in its stead.

In 1868 the state gave the University aid for the first time—\$10,000 for two years. On 9 January, 1892, the Main Building, an immense structure containing the Library, Museum, and other collections, was burned,—the Hall of Agriculture and the Observatory being the only buildings for instruction left on the campus in Columbia. We have had to supply since that date new buildings, books, and laboratory equipment.



**Enrollment.** The number of students enrolled in the University (in 63 years), to August, 1904, adding those in one session to those in another, and deducting names counted more than once, is 28,600. There are more than 30,000, including the students of this session.

**Degrees.** The number of degrees conferred for work done, is 3,243. The number of persons on whom these degrees have been conferred (2 or more sometimes on the same person) is 2,758. Of honorary degrees 169 have been conferred.

**Raising Standards.** Not the least contribution of the University to the state has been in the raising of standards in education. We have held aloft the idea that no college or university ought to maintain on its campus a preparatory department. The mixture of a college and an academy in one institution is most unwholesome. By abolishing its preparatory department and by raising the standards of admission so that a student must have a good high school education to enter any department at Columbia or at Rolla, the University has set in higher education an example that, sooner or later, will be substantially followed by every real college in the state.

The University requires a high school education as a preparation for Law, or Medicine. All sound thinkers on education are agreed that it is unfortunate for these professions to admit to them men who have not had proper academic training. After a student has entered the University, we require three years of study for the law diploma and four years of nine months each for a medical diploma. This raising of standards has been of great benefit to other schools of law and medicine.

The University has introduced into the state the idea that medical laboratories of anatomy, histology, physiology, physiological chemistry, pharmacology, hygiene, bacteriology, and pathology should be filled by men supported by salaries who give their whole time to reading, writing, teaching, and research, and who do not practice at all. This idea is being adopted gradually by other medical schools of the state.

## THE UNIVERSITY AND THE PUBLIC SCHOOLS.

**High Schools.** Thirteen years ago there were not in all the state more than six high schools that were preparing students to meet the present requirements of the Uni-

versity. Now there are 117. The total number of accredited schools, public and private, on our list is now 132. Probably 50 more are seeking places on our list. This is astounding growth in 13 years. While there have been other causes for this progress, by far the greatest single cause has been the far-reaching influence of the University. As the number of good high schools has increased, the enrollment in them has naturally become far greater. In 1891 there were not more than 5,000 pupils in good high schools in all Missouri. There are probably 25,000 now.

Besides maintaining summer schools for the better training of teachers, we have kept in the field an Inspector who has spent his time visiting high schools and teachers' institutes. Guided by his reports, the officers of the University advise and encourage the schools to equip their laboratories and libraries, to increase the staff of teachers, to lengthen the course of study to four years, and to make the work in every respect first-class. A large portion of the time of the Dean of the Teachers College is given to correspondence with officers of high schools. Through a Board for the recommendation of teachers at the University, high school officials are placed in touch with our best graduates to mutual advantage.

But the improvement of the high schools means the improvement of the district schools below them. The attempt to build up good district schools without good high schools above them has been tried far and wide and always disastrously. New York City tried it for a number of years but finally established high schools because dry-rot was striking the seventh and eighth grades of the district schools. St. Louis has just established two more high schools that there may be a stronger pull upward upon her ward schools. When, therefore, in 13 years the number of really good high schools in Missouri has increased from 6 to 117, who can estimate the resulting improvement in the district schools? If the University has been the most potent factor in the improvement of the high schools should she not be credited, in large measure, with such improvement of the district schools as has come from that of the high schools?

We wish heartily that the state would give aid to the establishment of rural high schools in which should be taught agriculture, horticulture, entomology, botany, manual training, and domestic economy, as well as languages, mathematics, sciences, history, and English. In our opinion the greatest educational problem before Missouri to-day is how to develop, through state aid and local aid and county aid, a great system of rural high schools—literary, scientific, and industrial.

## **Summer Schools.**

The summer schools of the University have conferred great benefit upon the teachers of Missouri, and through the teachers upon the public schools. The Summer Session at Columbia was organized primarily for teachers who were teaching during the

winter months.

The enrollment in the Summer Session has increased in a few years from thirty students to several hundreds, representing three-fourths of the counties of the state, and including teachers of all grades,—superintendents, principals, teachers in the high schools, and those in the grades. In ten years 2497 students have been enrolled in our Summer Sessions. After spending one or more summers here they have gone back to their schools with new ideas, new methods, and with increased inspiration for teaching.

During this biennial period 900 students have been enrolled in our summer schools. It is fair to suppose that each one of these 900 teachers taught about 50 pupils during one of the succeeding winters. Thus it will be seen that at least 45,000 children have received better instruction owing to the attendance of these teachers in our Summer Sessions. Through the thousands of teachers that have been enrolled both summer and winter, the University is providing better instruction for a vast number of children in the public schools throughout the state. The University is indeed at the head of the public school system in law, in fact, and in the recognition of the teachers.

## **TEACHERS COLLEGE.**

In this connection it is well to explain the functions of the new Teachers College which the University organized in the spring of 1904. In 1867 the Legislature of Missouri created in the University a chair of Theory and Practice of Teaching. It was the first chair of Education established in any university in America. Of this fact our state may be justly proud. During the past year the Department of Education has been abolished and the Teachers College created in its stead. A Dean has been appointed and a special faculty has been selected to offer the best advantages to those persons who desire to fit themselves to become teachers. The faculty consists of Professors of Psychology, History and Principles of Education, Theory and Practice of Teaching, and School Organization and Management, in addition to a number of specialists who deal with the methods of teaching their particular subjects. There is scarcely a phase of school work in which the



Teachers College does not afford opportunity for specialization. Not only may one specialize in English, Foreign Languages, Mathematics, Science and other standard subjects, but excellent facilities are provided for training in Drawing, Manual Training, and Music. The course is four years in length, leading to the degree of Bachelor of Science in Education.

The purpose of the Teachers College is to train efficient teachers for all grades of school work, but it is especially well equipped for the training of city superintendents, high school teachers, principals, and persons wishing to prepare themselves for supervisors in Drawing, Manual Training, and Music.

For more than a year the Teachers College has co-operated with the State Superintendent of Public Schools, sending members of its faculty to deliver addresses before County Teachers Associations, thus creating a lively interest in the foremost educational topics of the day.

### COLLEGE OF AGRICULTURE.

#### **Cattle Feeding.**

During the past 9 years the Agricultural Experiment Station has studied the problems of cattle feeding, and especially such questions as the cheapest and best methods of wintering cattle; the comparative feeding values of clover, alfalfa, cowpeas, millet, sorghum, corn fodder, and timothy, for wintering cattle and for full feeding; the values of cottonseed meal, linseed meal, and bran, in combination with corn, for fattening cattle in winter and in summer; a comparison of the profits of winter and summer feeding; the value of shelter in winter for full-fed and for half-fed cattle; and the profit of baby beef as compared with that of older cattle.

The Station has collected statistics from over 1,000 of the leading cattle feeders of Missouri, Illinois, Iowa, and Nebraska, concerning the practical details of beef and pork production. This represents a sum total of mature judgment of feeders, based upon about twenty years of experience, and upon an aggregate of 2,500,000 steers fed and marketed.

On account of the work this Station has done along these lines, the United States Department of Agriculture requested us to prepare a special report to Congress on this subject.

#### **Federal Co-operation.**

The United States Department of Agriculture is co-operating with the Missouri Experiment Station in a large feeding experiment in which 80 head of cattle are fed continuously throughout the year. This is

one of the largest cattle feeding experiments ever attempted. It has already attracted considerable attention and is destined to yield results of great value. The Department at Washington is also co-operating with us in a preliminary soil survey to determine what parts of Missouri are best adapted to alfalfa. The investigations have already brought out the fact that large crops of alfalfa can be grown in Missouri if certain conditions are fulfilled. The Government has also been co-operating with this Station in an extensive experiment in irrigation.

In connection with our Department of Botany the United States Department of Agriculture has been conducting a number of notable experiments. A new method of growing mushroom spawn has been discovered here, as a result of which the mushroom growers of the United States will be saved thousands of dollars every year formerly spent in importing spawn.

**Veterinary  
Surgery.**

The disease commonly known as Texas Fever affects cattle all over the world below a certain line of temperature. More than a third of the United States is included in this infected area. The line is usually about the southern boundary of Missouri, although in some seasons the infection spreads through one or two tiers of our counties, and every year, through the transportation of cattle from the South, it is scattered more or less throughout Missouri. The disease is a constant menace to our herds, and it is only by the most rigid quarantine and diligent inspection that serious outbreaks and severe losses are prevented.

The Missouri Experiment Station was the first to demonstrate by rigorous experiments that this disease was transmitted by ticks. The results of these investigations suggest simple and efficient means of ridding the farms of South Missouri of this infection when by chance it becomes established there.

Of importance to all of the state and the country was the discovery by our Experiment Station that Northern cattle may be rendered proof against this disease. Formerly when thoroughbred bulls from Missouri were shipped South, from 80 to 90 per cent of them died of Texas Fever. When they have been inoculated at our Station, the loss is less than 6 per cent. Hence the breeders in the South who formerly feared to buy thoroughbred animals from Missouri are now buying them, when inoculated, in large quantities.

A magazine writer recently in summing up the most important scientific discoveries of the Nineteenth Century, mentioned three in

Veterinary Medicine, one of which was the discovery of a method of immunizing cattle against Texas Fever made by the Missouri Experiment Station.

Our bulletins reporting the results of these investigations have been translated into many foreign languages, and have been called for by the veterinarians, government officials, and cattlemen of India, Italy, Spain, Germany, France, Australia, New Zealand, Cuba, Porto Rico, Mexico, and South America. Tens of thousands of dollars worth of Missouri-bred cattle have found a good market in the South, as a result of these discoveries.

The Experiment Station is now trying to discover a preventive for Hog Cholera, and a means of treating a new disease among hogs which causes annually a loss to our farmers of many thousands of dollars.

Conservative estimates place the average annual loss to the farmers, stockmen, and fruit and vegetable growers of Missouri, from the ravages of insects, at twelve million dollars, while between two and three millions of this annual loss could be easily prevented by a proper knowledge of the methods of controlling these pests.

Many insects which formerly fed upon wild or worthless plants, subsist now upon farm and garden crops—partly because of the disappearance of their natural food, and especially on account of the increased area of cultivated food. Therefore, injurious insects are increasing, not only in numbers, but also in the number of species. Thus new problems about insects are constantly arising which need careful scientific investigation.

For example, the Woolly Aphis of the apple had baffled the efforts of all entomologists and of all fruit growers. The Station at Columbia carried on for three years, in South Missouri, a series of experiments which resulted in our finding cheap and effective means of completely controlling this pest. It is estimated by careful commercial fruit growers that this discovery alone is saving the orchards of South Missouri from \$75,000 to \$100,000 annually.

An insect known as the Fruit Tree Bark Beetle is now causing great damage to the orchards of Missouri and Arkansas. Recent investigations made at Columbia show that a new spray mixture, when properly applied, will hold this insect completely in check.

The Fruit Tree Leaf Roller, which appeared only recently in sufficient quantities to cause serious loss, has destroyed practically all



the fruit in a number of the leading commercial orchards of the state. After some experiments, the Station has been able to suggest a system of spraying which will entirely prevent injury from this insect.

The Curculio, which stings the apple, has developed in such numbers recently as to reduce the grade of apples in nearly all the Ozark region from No. 1 to No. 2, causing an enormous annual loss. A cheap and successful method of controlling this pest has been worked out here.

We have been studying the insects especially injurious to the strawberry in a leading strawberry growing section of South Missouri. One grower reports that the work of the Station along this line saved him eight car-loads of berries in a single season.

The San Jose Scale, an insect that has caused millions of dollars of damage to the fruit interests of California and the Atlantic States, has gained a foothold in a number of places in Missouri. The Station has used its best endeavors to locate these infected districts, and, so far as possible, to stamp out the pest. We have not yet succeeded in doing this, but we have prevented it from spreading.

Horticulture has made giant strides in Missouri during the past 8 years. From third or fourth rank in importance as a fruit state, we now hold first place in the number of growing apple trees. Peach growing, also, has kept pace with this advance, and many other fruits are grown more largely every year within the State. In great measure this is due to the work of our Department of Horticulture at Columbia.

The growth of the fruit industry has not been free from obstacles. In 1897, by prompt action the fruit growers were warned that peach Yellows and Rosette, two deadly diseases of the peach, had probably found a footing in the state, and by co-operating with the orchardists, the Horticulturist of the Station kept a close watch on the suspected localities and had the satisfaction of seeing these menaces to peach growing, which have devastated so many orchards in the East, stamped out before they barely had a beginning in Missouri.

Experiments conducted at Columbia show that, by spraying peach trees with a whitewash in late winter, a cheap and effective protection is furnished which prevents the buds from starting into growth during warm days in winter, only to be killed by a subsequent freeze. By this simple discovery, large yields of fruit have been secured where otherwise there would have been little or none.

Experiments are now in progress with a view to originating hardy varieties of peaches which shall better withstand our winter.

In a test of many scores of new varieties of grapes, which no grower could afford the time, trouble, and expense to test for himself, not only were several valuable new sorts added to the list to be grown in the West, but nearly half of the varieties experimented with were found to be incapable of forming fruit unless grown adjacent to other sorts from which to receive pollen. This knowledge has been used by a large number of farmers who thenceforth have been successful in their grape growing.

It was demonstrated conclusively at our Station at Columbia that asparagus could be successfully grown in the open field in the depth of winter, with great profit to the market gardener. The gardeners adjacent to the cities were quick to adopt our plans and the five years that have elapsed have not diminished the popularity of the discovery among these practical men.

For some time the horticultural department here stood almost alone in advocating certain methods of orchard management. Chief among these was cultivation, which is now observed by all successful commercial orchardists. Judicious spraying, as advocated by this Station, combined with cultivation, has repeatedly changed failure into success in the apple growing districts. Our new methods have stood well the test of experience.

A careful test made here of the value of watering strawberries in a dry season showed that the yield of fruit could be increased five or six times, and at the same time an abundance of new plants could be formed from runners which otherwise would not have been formed at all. This has attracted attention throughout the state.

The best work the Department of Horticulture at Columbia has done in recent years has been to get into touch with the people themselves, to work with them, and to help them.

**Dairy Husbandry.** The Department of Dairy Husbandry has rendered valuable aid to this growing industry of the state. Hundreds of inquiries are answered annually. By means of lectures at Farmers Institutes and bulletins, various items of interest and profit, discovered by the Department, have been brought to the attention of the dairymen of Missouri.

**Agricultural Chemistry.** For years the Laboratory of Agricultural Chemistry has tested the purity of all fertilizers sold in this state. Under the new Fertilizer Law, enacted by the last General Assembly, all the fertilizers sold in this state have been registered in the office of the Director of the Experiment Station, and

samples of these fertilizers have been collected in the open market and analyzed by the Station in order to determine their composition. Each package of fertilizer offered for sale is required to be marked with its guaranteed chemical composition and a tag furnished by the Director must be affixed indicating that the brand in question has been duly registered according to law. This law has proved highly satisfactory to the farmers and to the manufacturers of the state.

Missouri should have a Pure Food and Drug Law the tests under which should be conducted in this same laboratory which has rendered in the past so great public service.

A discovery of great value has been made by the agricultural chemist in the course of the past year. A formula for compounding a Bordeaux Mixture which may be used in powdered form for spraying fruit trees has been discovered. Perhaps this is the most valuable discovery in spraying made in this country in 1904.

**Drinking and  
Industrial  
Waters.**

During the present year the waters of the incorporated cities and towns of the state have been analyzed by the Department of Chemistry to determine their hygienic character and their adaptation to industrial usage. The results have been published in the form of a bulletin which will be furnished upon application to the University. In the laboratory of Agricultural Chemistry all the mineral waters of Missouri have been carefully analyzed. The book published on this subject some time ago has become the authority for the state.

**Cement  
Rock.**

In the last few years the departments of Geology and Agricultural Chemistry have been trying to determine whether certain deposits in Missouri can be converted into cement. The work has proved that Kansas City contains large quantities of rock capable of producing cement that seems to be of excellent quality and that deposits of cement-rock of good quality are found at other places in the state. When deposits are found that seem to contain cement-rock it is necessary to prove by process of manufacture that cement of good quality can be made out of the material. The stone has to be ground, mixed, burned, ground again, set, and then tested under the crushing machines. If the first experiments are not successful they must be repeated with various modifications until it is finally proved that good cement can or cannot be made out of the material. Our experiments have proved that Missouri contains at various places immense deposits of rock that can be converted into Portland cement.



**Co-operation  
With Farmers.**

Several means are employed to bring the results of our experiments to the farmers of the state. Bulletins and circulars of information are printed from time to time and distributed free of charge to all who apply for them. Every year the Station staff delivers hundreds of lectures before Farmers Institutes in all parts of Missouri. The important discoveries of the Experiment Station are also demonstrated by co-operative experiments with farmers themselves.

During the past year, co-operative experiments with corn fertilizers on various soils widely separated have shown that phosphoric acid is more often efficient in increasing the yield of corn than any other fertilizing material. The losses of cattle from Blackleg in the state amount to thousands of dollars annually. The Station has completed arrangements with the United States Department of Agriculture for sending out Blackleg Vaccine, a sure preventive of this disease, to the stockmen of Missouri. The Veterinary Department has continued its work inoculating cattle against Texas Fever. The Department of Entomology has continued distributing chinch bug infection which has been helpful. Inoculated alfalfa seed with directions for sowing has been distributed to about 100 farmers representing all large sections of the state. Commercial fertilizers sent in by farmers have been analyzed by the Department of Agricultural Chemistry. Thousands of letters have been written by the members of the Station staff in answers to inquiries.

**Agriculture  
in the Public  
Schools.**

Circulars of information regarding the teaching of Agriculture and Horticulture in the public schools have been published from time to time by teachers in the College of Agriculture. For these publications there has been a great demand from the teachers of Missouri, with the result that these subjects are being introduced into the elementary schools in several places in the state.

## **ENGINEERING DEPARTMENT.**

**Water  
Power.**

In the summer of 1900, the University at its own expense made a complete survey of the water power in South Missouri, publishing the results in a bulletin which was circulated widely among manufacturers. We showed where there was water power and how electric power produced by it could be carried over wires to the nearest industrial center. This work was done at Columbia.

**Missouri  
Coal.**

In 1901, the University sent an officer to every important coal mine in Missouri to take samples—neither the best nor the worst—for analysis in our laboratories. The geological surveys had shown where the coal beds were and the thickness of the veins, but nobody had yet tested the steam-producing power of Missouri coals in comparison with those of other states. This work, done thoroughly by the University, was published in a bulletin which was scattered widely among manufacturers.

**Good Roads.** The Departments of Engineering and Agriculture at Columbia have made the most careful and elaborate tests that have ever been made on the effect of wide tires upon roads and upon teams. To test the matter thoroughly the experiments had to be conducted on roads of different compositions, and in every sort of weather. Everybody knows that in some kinds of weather wide tires decrease the draft. We found that in some unusual conditions of the roads they increase the draft, but in nine cases out of ten, they represent a decided saving to the team and a benefit to the roadbed. The pamphlet embodying the results of this experiment has been called for by engineers all over the country. It has become a standard authority on the subject.

## **THE SCHOOL OF MINES.**

In one biennial period our School of Mines at Rolla examined for miners, prospectors, and capitalists 8,000 specimens of Missouri rock and soil supposed to contain minerals. The value of Missouri's annual mineral production is about \$25,000,000. The School of Mines and Metallurgy is training young men to manage, conserve, and develop these vast interests. It is interesting to note the following instances in which work of great value has been done by men trained in this school: the improved cyanide process used in the largest gold plant in the Rocky Mountains; the method of handling and treating the mine water in the large copper mines of Butte, Montana; the method of coking coal for the smelters of Anaconda, Montana; the building of the New York Central Railway Suspension Bridge over the Harlem River. The graduates of this school and of all departments of the University, an army of well educated men and women, are exercising constantly an unseen and immeasurable influence upon the communities in which they live.

## ACADEMIC DEPARTMENT.

**Sociology.** The Department of Sociology has carefully investigated the condition of the county almshouses of Missouri. The results of these investigations together with practical suggestions for the improvement of conditions in our almshouses was published by the University in a pamphlet of thirty pages last May. It was shown that the principal evils connected with our almshouse system are four: (1) the presence in the almshouses of a large number of mentally defective, especially insane persons who should be in state institutions; (2) the presence of a number of children, both healthy and diseased who should be provided for elsewhere; (3) the general prevalence of the "lease system," by which in about two-thirds of the counties the care of the almshouse and its inmates is let out to the lowest bidder; (4) the general absence of adequate classification among the inmates of the almshouses, both sexes, the two races, and all ages and conditions being frequently found mingled together. It was also shown that the remedy for these evils lies partly in increasing the power of the State Board of Charities over county institutions and partly in mandatory and prohibitive legislation.

The Department has also conducted a similar investigation into the condition of the county jails of Missouri, the results of which were published by the University in a pamphlet issued last June. It was shown that the chief evil in our jail system is the absence of adequate classification and separation of prisoners, allowing the intermingling of prisoners of all ages, and all degrees of criminality. A majority of the jails were found to be without adequate provision against jail-breaking and only one-fourth of the jails were found to be fire-proof.

The Department has also issued a study of the system of public charity in England. This study of one of the most fully developed systems of state charity in the world affords many practical suggestions to those who are actively interested in the development of our system of public relief and eleemosynary institutions in Missouri.

**History.** The Department of History is making strenuous and successful efforts to develop an interest among the students and in the state generally in the history of Missouri. Courses of both an elementary and advanced character are offered and research work is encouraged on the part of advanced students. The presence of the State Historical Society with its excellent library of 25,000 volumes is an impetus to thorough work in



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this field. It is hoped and expected that in the near future the investigations conducted by teachers and students will find expression in publications throwing new light on the history of the state. There is certainly room for such work. The great World's Fair volume on Missouri was written and edited chiefly by men connected with our University.

**English.** The Department of English has been investigating for some time the folklore and songs of the people of Missouri. A publication regarding these matters will no doubt be issued in a short time which cannot fail to prove of interest to all natives of Missouri.

**Economics.** The Department of Economics offers advantages, not only for the study of the science as a means of culture and training, but also for the investigation of those practical problems, such as Banking, Co-operative Enterprises, Currency Reform, Insurance, Immigration, Monopoly, Markets, Transportation, Taxation, Tariff Legislation, Trusts, etc., which affect immediately the prosperity and general welfare of the people. It is the purpose in the next few years to give special attention to the industrial affairs of Missouri, noting the natural resources and following the industrial development. Special attention will also be given to the development of the financial system of the state and the possibilities of further development. The possibility of accomplishment along these lines is great at this time on account of the fact that the Department is in co-operation with the Carnegie Institution which is giving particular attention to such work in all the states of the Union, working through the leading universities of the several states. The results of the investigations will be published from time to time, and it is expected ultimately to cover the entire field of the industrial history of Missouri. Two monographs, one on Transportation, and one on Money and Banking will appear during the coming year.

## LAW DEPARTMENT.

The Law Department not satisfied with preparing young men for practice alone, felt that it ought to extend its influence in the state in the direction of assisting the profession generally. To this end it has taken active charge of the canvass for a bill to be introduced at the next session of the Legislature to provide for uniform examinations of candidates for admission to the bar under the immediate di-

rection of the Supreme Court. This law, if enacted, will do much toward raising the standard of the bar and the bench of Missouri. This movement has met with a cordial reception from the profession in Missouri.

**Medical Department.** Our Medical Department is standing firmly for the following things: (1) a good high school education for admission; (2) a course of study four years long—36 months; (3) well equipped laboratories of Anatomy, Histology, Embryology, Physiology, Physiological Chemistry, Pharmacology, Pathology, Bacteriology, Surgery, Internal Medicine, Physics, Chemistry—all in charge of men who, supported on salaries, are not engaged in the practice of medicine but give their whole time to teaching, writing and investigation; (4) the postponement of clinical instruction to the beginning of the junior year, and an accurate study of each case that the student examines; and (5) finally the forcing of all candidates for practice in the State to show their fitness. This struggle for standards has had much influence upon medical education in St. Louis and will finally reach all Missouri.

The Parker Memorial Hospital, with a capacity of 45 beds, is situated on the campus and is owned and controlled by the University. It is, indeed, the only state hospital which Missouri possesses. The organization, equipment and management of this hospital give the State no cause to blush.

**Scientific Collections.** Our Museum at Columbia should abound in fossils and in Indian remains which are plentiful in this commonwealth. The museums of some other universities contain case after case filled with such specimens from Missouri. We ought to have here skeletons and mounted specimens of all the wild animals, fishes, insects, and birds that now live in Missouri, or that have lived here in the past. The College of Agriculture is eager to make a Soil Survey of the state and also a Botanical Survey. Our Herbarium should contain well mounted specimens of every plant that grows in Missouri. The Department of History should be adorned with facsimiles of important documents illustrating the history of Missouri, and with portraits, busts, or photographs of all her greatest men and women.

The University is eager to make these collections if only the means were supplied by the Legislature or by private beneficence. This, too, is a form of Public Service.

**Public  
Service.**

Every chair in a state university should endeavor, so far as possible, to maintain four lines of work; 1. Teaching; 2. Influence for good on students and institution; 3. Research and Publication; 4. Public

Service. The Public Service should aid interests of the state outside of the university and such interests only as can be reached by scientific skill. Such service should not be divorced from the purposes for which a university is maintained.

**Caring for  
Missouri.**

The state is spending annually a small sum of money for her University. What we are asking out of the General Revenue Fund for maintenance in the next biennial period amounts to less than one and a half cents a year on every \$100 of property in the state. A man whose assessment is \$1000 would pay 15 cents a year for maintaining the University. Many times what our maintenance costs is saved every year to citizens of Missouri through the applications and the results of our scientific work in feeding live stock, in destroying insect pests, in increasing the yield of fruits, vegetables and crops, in discovering deposits of cement-rock and other minerals, and in other ways. But the greatest return that the state receives from the University is in the vast improvement of the public schools and in the raising of standards in professional education. In addition to these achievements abroad, 1860 young men and young women will receive instruction this year—intellectual, moral, social, and civic—at Columbia and at Rolla. This is repeated annually on an ever increasing scale. Does not the University take care of Missouri? It is at least aiming to do so, and the aim is laudable.



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# BULLETIN OF THE UNIVERSITY OF MISSOURI

VOL. V.

DECEMBER, 1904.

NO. 12.

## GROWTH IN THIRTEEN YEARS (1890-1903).

### Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia 24 June, 1839. The various departments were established as follows: Academic department, 1841; Department of Education, 1867; College of Agriculture and Mechanic Arts, 1870; School of Mines (located at Rolla), 1870; Law Department, 1872; Medical Department, 1873; Engineering Department, 1877; Experiment Station, 1888; Graduate Department, 1896. In 1890, the Missouri State Military School was created a department of the University and in 1904, the department of Education was expanded into a Teachers College, a professional school of high grade. All departments except the School of Mines are at Columbia.

In 1869, women were admitted to the Department of Education, in 1870, to the Academic Department, and soon after to all departments.

In 1868 the University received aid from the state for the first time—\$10,000 for two years. On 9 January, 1892, the main building, containing the library, museum, and other collections, was burned, the Hall of Agriculture and the Observatory being the only buildings for instruction left on the campus at Columbia. We have had to supply anew, buildings, books, and laboratory equipment.

### Endowment.

In December, 1890, the endowment consisted of (a) seminary fund, \$540,000 in state certificates at five or six per cent; (b) annual income from U. S. Government, \$29,150; (c) unsold land, 57,256 acres; (d) appropriations by the Legislature. In December, 1903, the endowment consisted of (a) seminary fund, \$1,240,000, in state certificates at five or six per cent; (b) annual income from U. S. Government (Hatch and Morrill acts), \$38,438; (c) income from collateral inheritance tax of five per cent, \$142,564; (d) unsold land, 47,427 acres; (e) appropriations by the Legislature. The chance of missing an appropriation by the Legislature is scarcely so great as that of missing interest on the bonds of a corporation.

### Annual Income.

On 31 December, 1890, the annual income from all sources, for all departments and for all purposes, amounted to \$122,255. If the income from fees (\$11,250) be deducted, the remainder is equal to the interest, at 5 per cent on \$2,220,100 or at 4 per cent on \$2,775,125. On 31 December, 1903, the annual income from all sources, for all departments and for all purposes was as follows: (a) interest on seminary fund, \$63,267; (b) from U. S. Government, \$38,438; (c) collateral inheritance tax, \$142,564; (d) legislative appropriation, \$188,676; (e) fees, rents, etc., \$46,890. The total \$479,835, represents the income for the calendar year 1903. The annual income apart from fees (\$14,750) is equal to the interest at five per cent on \$9,301,695 or at 4 per cent on \$11,627,118. The fees are small because the state wishes us to make education practically free.

### Buildings, Books, and Equipment.

In December, 1890, our buildings, books, and equipment were valued at \$360,000. In December, 1903, they were valued at \$1,600,000, not including the campus or the grounds for Horticulture, Botany, and Agriculture.

## Enrollment of Students.

On 31 December, 1890, 510 students had been enrolled in that session of whom more than 210 were of preparatory grade. Not so many as 300 could have come in under our present requirements for entrance. They represented 11 states and territories. For the session of 1903-1904 the enrollment, including the students of the summer session, was 1649. The total number in summer and in winter session from June, 1904 to June, 1905 will exceed 1860. They represent 53 states, territories, and foreign countries. In the next five years the enrollment will go beyond 3,000 probably.

## Requirements for Entrance.

In December, 1890, nothing was required for admission to the Departments of Law, Medicine, and Agriculture, and to the School of Mines, except a certain age and the training of the elementary schools. In the Academic Department, the Department of Education, and the School of Engineering there was a preparatory school with a curriculum two years long, on the completion of which the student was admitted to the freshman class. To abolish the preparatory school, to raise the standard of admission to all departments, and to build up a system of good secondary schools was an early undertaking of the present administration of the University.

## Approved Schools.

In December, 1890, 23 secondary schools had been approved. In nearly all of them the course of study was meager and only two years long. Few of them had a laboratory or a library. There were not then six secondary schools in Missouri that could have met our present conditions for approval.

The number of approved schools is now 133. According to actual figures, this means a growth from 23 to 133, but according to the present requirements for approval, the increase has been from 6 to 133. As the high schools have advanced their courses from two years to four and have equipped their laboratories and libraries and have increased the number and improved the quality of their teachers their enrollment has grown steadily. In the thirteen years the number of pupils in secondary schools in Missouri has been multiplied several times. Ten years ago we appointed an Inspector who spends eight months each year visiting secondary schools and helping them. Of our approved schools 105 are in Missouri.

## Summer Session.

In 1890, the University was closed during the entire summer. A few courses were offered in Mathematics and in Science, but the work was unorganized and the attendance small. In 1896, a Summer Session was organized. This department has steadily grown in efficiency, and its influence upon the secondary schools has been great. Since 1896 nearly 2500 students, mostly teachers, have been enrolled for summer work.

## Positions Created.

In the last thirteen years the University has created at least the following positions: Dean of the Academic Department, Dean of the Teachers College, Junior Dean of the School of Engineering, Greek (Instructor, Assistant), Elocution (Professor), Classical Archaeology and History of Art (Professor), Romance Languages (Professor, Assistant Professor, Instructor), Germanic Languages (Professor, Assistant Professor, Instructor), Mathematics (Assistant Professor, Instructor, 3 Assistants in lieu of two Assistant Professors), Mechanics (Professor), Philosophy (Professor), Experimental Psychology (Professor, Assistant), History (Professor, Assistant Professor, Instructor, Assistant), English (Assistant Professor, 3 Instructors), Political Economy (Professor, Instructor), Political Science and Public Law (Professor), History and Principles of Education (Professor), Sociology (Professor), Law (additional Professor), Physics (Assistant Professor, 2 Instructors, and 1 Professor and an Assistant in the School of Mines), Chemistry (Assistant Professor, 4 Instructors,



In lieu of an Assistant), Agricultural Chemistry (Professor), Zoology (Professor, Assistant Professor, Assistant), Botany (Professor, Instructor, 2 Assistants), Entomology (Professor, Assistant), Horticulture (Instructor, 2 Assistants), Animal Husbandry (Professor, Assistant Professor), Agronomy (Professor), Dairy Husbandry (Assistant Professor), Veterinary Surgery (Professor), Physical Training (Professor, 3 Instructors, 2 Assistants), Mechanical Engineering (Professor, Instructor), Electrical Engineering, (Professor, Instructor), Civil Engineering (one more Assistant Professor), Mining Engineering (Professor), Metallurgy (Professor), Shop-work (4 Instructors), Mechanical Drawing (3 Instructors), Freehand Drawing (Instructor), Vocal Music (Instructor), Physiology (Professor, Assistant), Physiological Chemistry (Assistant Professor), Anatomy (Professor, Instructor, Assistant), Pathology and Bacteriology (Professor, Instructor, Assistant), Eye and Ear (Professor), Obstetrics and Gynecology (Professor), Internal Medicine (Assistant Professor), Head Nurse and Assistants and 2 Internes in Hospital; Inspector of High Schools, Landscape Architect, Superintendent of Buildings and Grounds, Adviser of Women, Assistant Secretary of the University, Registrar, Alumni Recorder, Publisher, Mechanician, Head Librarian and Staff of Cataloguers, about 15 Fellows and Student Assistants. In some cases the chair (e. g., Pedagogy) had been established, but was in 1890 yoked to another chair. In some cases chairs have been abolished and in their places two chairs have been established. For example, in place of a chair of Modern and Semitic Languages, with a Professor and an Assistant Professor, the Chair of Germanic Languages and that of Romance Languages have been established. In place of a chair of Biology, with a Professor and an Assistant, a chair of Botany and one of Zoology have been created.

## Universities Represented.

Our Professors, Assistant Professors, and Instructors, not including those to be appointed next spring, have attended, as undergraduates or as graduates, the following colleges and universities. In many instances the same man has attended two or more universities.

Harvard, 19; Yale, 3; Columbia, 8; Johns Hopkins, 11; Virginia, 5; North Carolina, 1; Georgia, 1; Vermont, 1; Michigan, 5; Wisconsin, 2; California, 2; Stanford, 2; Indiana, 1; Kansas, 1; Nebraska, 1; Missouri, 26; Illinois, 1; Dartmouth, 2; Oberlin, 1; Chicago, 10; Pennsylvania, 1; Minnesota, 1; Mississippi, 1; Clark, 2; Cornell, 12; Boston, 1; Bryn Mawr, 1; Williams, 1; Purdue, 2; Lehigh, 1; DePauw, 2; Ohio, 3; Dalhousie, 1; Manitoba, 1; Toronto, 2; McGill, 3; West Point, 1; Cambridge (Eng.), 1; Heidelberg, 5; Ecole des Beaux Arts, 1; Sorbonne, 1; Ecole Normale Supérieure, 1; Paris 5; Berlin, 10; Halle, 2; Zurich, 1; Munich, 3; Prague, 1; Classical School at Athens, 2; Classical School at Rome, 1; Strassburg, 3; Leipzig, 8; Freiburg, 1; Vienna, 1; Goettingen, 3; London, 1. Assistants, mostly graduates of the University of Missouri, are not enumerated, although they are generally of much promise.

The inequality in the representation of American universities is due to the emphasis that some give to research, and to the fact that some are not well conscious of western institutions, and partly to accident. No local, political, or sectarian test is applied in the employment of teachers here.

## Courses of Study.

Thirteen years ago the course of study in Law was two years long—sixteen months. The course in Medicine was of the same length. The course in Law is now three years long, and that in Medicine four, each consisting of nine months. In the Academic Department the course was four years long, but twenty hours a week of lectures were required, and there was little recognition of laboratory work. The course was nearly a hard and fast curriculum. Now fifteen hours a week are required and the student is prohibited from taking more than sixteen. All the work is elective, but the student is restricted from scattering his energies over too many subjects or concentrating them upon too few. Only one Bachelor's degree (A. B.) is given.



In the School of Mines in 1890 a little Metallurgy was taught in connection with Chemistry, but there was no attempt to teach Mining Engineering and there was no separate laboratory of Metallurgy. The course of study has been extended from three years to four, a chair of Mining Engineering has been established, and another of Metallurgy, a building for shops has been erected, and other improvements have been made too numerous to mention.

	31 Dec., 1890.	31 Dec., 1903.
<b>Statistical Summary.</b>		
Seminary fund (endowment) . . .	\$540,000	\$1,240,000
From U. S. Government (yearly) . . .	\$29,150	\$38,438
Annual income (for all purposes) . . .	\$122,255	\$479,835
Income, less fees, capitalized at 5 per cent . . .	\$2,220,100	\$9,301,695
Buildings, books, and equipment. . . . .	\$360,000	\$1,600,000
Acres of unsold land . . . . .	57,256	47,427
Students enrolled (actual numbers, 1903-1904) . . . . .	510	1649
Students enrolled (under present entrance requirements) . . . . .	300	1649
Professors, Assistant Professors, and Instructors . . . . .	38	100
Approved secondary schools (actual numbers) . . . . .	23	133
Approved secondary schools (under present requirements) . . . . .	6	133

	31 Dec., 1890.	31 Dec., 1903.
<b>Requirements for Entrance.</b>		
College† . . . . . El. school course . . . . .	High school diploma	
Law Department . . . . . El. school course . . . . .	High school diploma	
Engineering† . . . . . El. school course . . . . .	High school diploma	
Medicine . . . . . El. school course . . . . .	High school diploma	
Department of Education† . . . . . El. school course . . . . .	High school diploma	
School of Mines . . . . . El. school course . . . . .	High school diploma	
College of Agriculture . . . . . El. school course . . . . .	High school diploma	
Graduate Department . . . . . (not then created) . . . . .	Bachelor's degree.	
†(In Preparatory Department.)		

**Missouri.** Missouri contains 69,415 square miles—nearly 3,000 more than New England. The population is 3,106,665. The assessed valuation of property (about one-third of the real value) is \$1,200,000,000. While the development of its resources has scarcely begun, it is the fifth state in the Union in population and also in wealth and the seventh in manufactures. For agriculture and for mining it is justly famous. The large area, population, and wealth of the state and its imperfect development give great opportunity to the University. Its geographical position and political history make Missouri at once a Western, a Northern, and a Southern state. This also is of advantage educationally.

**Conclusion.** The statistics printed above are strictly accurate, but they do not tell the whole story. There never has been a time since 1841 when the University lacked a number of teachers of marked skill and ability; nor has there ever been a time when a good education was not obtainable here by the able and the strenuous. When opportunities are few, men grasp them eagerly, but neglect them, when they become abundant. The difference between what the *best* students get here now and what they got in former years is not nearly so great as the statistics would indicate. Preparatory departments are unfortunate, but the instruction given in ours was of excellent quality. Courses in Law and Medicine, two years long, and without demand for previous preparation, are unfortunate; but numbers of able lawyers and skillful physicians are to be found among our alumni and many brought a good education as preparation. So also for Engineering, Agriculture, and Mining. The recent advancement of the University is due largely to the labors of men that in the past sowed abundantly, but reaped sparingly. All honor to them!

While the opportunities in the last thirteen years have been great, the obstacles here have been formidable. Situated in a small town reached only by branch railroads, crippled at first by a preparatory department and the lack of secondary schools, burned in 1892, and hindered constantly by many things which impede progress, the University has had to compete in its own state with thirteen schools of medicine, three of law, one of engineering, two universities, and many colleges. What has been achieved justifies hope. We seem to have reached ground from which in the next thirteen years the University may make great progress. May He who has shielded it in many a time of peril guide it into the highest usefulness to men!

R. H. JESSE.

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# BULLETIN OF THE UNIVERSITY OF MISSOURI

VOL. VI.

NOVEMBER, 1905.

NO. 11

## OBLIGATIONS AND OPPORTUNITIES OF THE CHURCHES at THE UNIVERSITY OF MISSOURI.

If we go back a few years in the history of education in our country, we shall reach a time when the majority of our youth attended church colleges in some of which religious training was given considerable emphasis. Less than ten years ago six private institutions of the East—Harvard, Columbia, Yale, Princeton, Pennsylvania and Brown—enrolled more students than the six largest state universities in the Mississippi Valley. But the remarkable growth of state universities, especially in the Middle West, has caused a very noteworthy change to take place in the comparative enrollment.

Last session according to a table compiled by Dr. Henry S. Prichett, President of the Massachusetts Institute of Technology, and published in the Atlantic Monthly for September, the enrollment of the six largest private institutions of the East—Harvard, Columbia, Yale, Pennsylvania, Princeton and Brown—was eighteen thousand four hundred and ninety-eight (18,498). The six largest state universities—Michigan, Minnesota, Illinois, California, Wisconsin and Nebraska—enrolled in the same session twenty thousand eight hundred and eighty (20,880), an excess in enrollment of two thousand three hundred and eighty-two (2,382) over that of the above mentioned private institutions. Many of the state universities have just begun to grow, and they are increasing in enrollment by the hundreds from year to

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year. In 1895, Illinois had an enrollment of eight hundred and seven (807) and Missouri of seven hundred and fifty-three (753). Last session the enrollment at Illinois was more than thirty-five hundred (3,500) and the enrollment at Missouri will be over twenty-one hundred (2,100) in the current session. But for an outbreak of typhoid fever at the opening in September, the enrollment of the latter would be much larger.

A census of the students enrolled in state universities shows that they come from families that are church adherents. In the current session eighteen hundred and ninety-four students (1,894) have matriculated in the University of Missouri. Of this number, sixteen hundred and ninety-four are enrolled at Columbia. The church affiliations of these are as follows:

DENOMINATION	MEMBERS	CHURCH PREFERRED	TOTAL
Methodist.....	264	130	394
Christian.....	225	108	333
Presbyterian.....	186	81	267
Baptist.....	171	70	241
Episcopal.....	64	22	86
Catholic.....	49	5	54
Congregational.....	33	14	47
Lutheran.....	12	3	15
Jewish.....	9	4	13
Evangelical.....	9	1	10
Latter Day Saints.....	3	1	4
Universalist.....	3	2	5
Christian Science.....	1	1	2
United Presbyterian.....	1	—	1
Reformed.....	1	—	1
Zion.....	—	1	1
Unitarian.....	—	6	6
Salvation Army.....	—	1	1
Quaker.....	—	1	1
Reformed.....	1	—	1
Peoples.....	1	—	1
Those expressing themselves as having no preference.....			211

It appears from the above table that one thousand and thirty-two students (1,032) are church members and four hundred and fifty-one (451) prefer certain churches. Only two hundred and eleven (211) of the entire number are wholly indifferent in regard to the matter of church affiliation. To state the same fact in somewhat more graphic



fashion, the percentage of church members is 60.9, of those having church preference 26.6, while the percentage of those without any church affiliation is only 12.5. Combining the first two classes under the head of church adherents, we have 87.5 per cent of the total enrollment with church affiliation. That is, of the sixteen hundred and ninety-four students, fourteen hundred and eighty-three are church adherents. These young men and young women may without any exaggeration be called the flower of our state. They come from all ranks of society and are the children of persons following nearly all the pursuits to which men devote themselves. They are preparing themselves to be teachers, farmers, doctors, lawyers, engineers, preachers, merchants, editors, mechanics, nurses, etc. From their ranks will unquestionably come many of the future leaders in our state and nation, men and women who will mould public opinion and direct its movements. Statistics show that the man of culture has always been an important factor in society. There never was a time when he was such an important factor as he is in these early days of the twentieth century.

While the University of Missouri cannot provide formal religious instruction for its students, it is using every agency available for religious training in a state university. In choosing men to fill the various professorships, there is no religious test, but the first requisite is such a high moral character as to make them suitable teachers for our youth. The Young Men's Christian Association and the Young Women's Christian Association have the hearty support of the University authorities and they are doing a splendid work in systematic Bible study and in other lines of religious work. Noted ministers are invited from time to time to preach to the students. In the current session, sermons have been given by Dr. J. W. Lee, pastor of St. John's Church, St. Louis; Rt. Reverend John J. Glennon, Archbishop of St. Louis, and Dr. E. R. Hendrix, Bishop of the M. E. Church South. A number of other well-known ministers will preach to the students during the session.

The source of aid that is most important of all is the enthusiastic co-operation of the various churches. This source of help in the religious training of its students the University does not have in full measure. The result is that large numbers of young men and young women who are to be the future leaders in our state are left almost en-

tirely to the care of the local churches in the matter of formal religious instruction. These local churches are not able to give them the attention that they deserve, for they are overcrowded with their own duties. Does not a weighty obligation rest upon the various denominations to make special provision for the formal religious training of their adherents in the University, and also for those who are not church adherents, as far as they can be reached? However this question may be answered no one will deny that the churches have here a great opportunity which they are either only partially using or wholly neglecting. No such opportunity has been offered in modern times to win the future leaders in politics, in education, in business and in society. By establishing Bible colleges, church houses, Bible chairs, and college pastorates the churches could promote the moral and religious life of large numbers of young men and young women who will in the future be enrolled as students in the University. No one can measure the tremendous influence for good that may be exerted upon young people through constant contact and association with a resident pastor or head of a dormitory whose character and ideals would inspire them to the highest type of life, quite apart from the formal religious instruction that might be given. Such work is being done in neighboring states. The church of the Disciples maintains Bible chairs at Michigan and Kansas. The Presbyterian church has recently established a church house and placed a college pastor at Kansas and decided to put a college pastor at Illinois. The Episcopal church has established a guild house for boys and a church house for girls at Illinois. Some of the denominations are beginning to feel the obligations and appreciate the opportunity offered at Missouri. One denomination has already established a Bible College adjacent to our campus. Another has within the last month appointed a committee to investigate the advisability of making some special provision for the care of its adherents enrolled here. Others are seriously considering the whole matter. A mighty uplift to the religious life of the University community will come when all the denominations extend to the University authorities their enthusiastic co-operation.

J. C. JONES,  
Acting President.

November 15, 1905.

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# BULLETIN

OF THE

# UNIVERSITY OF MISSOURI

VOL. VI.

DECEMBER, 1905.

NO. 12

## ANNOUNCEMENT OF THE SECOND SEMESTER.

January 30 to June 6, 1906

The work of the second semester begins on January 30 th, 1906. At that time many new courses are taken up in the various departments, and new students may enter and find abundant opportunities for work in these courses and also in the courses continued from the first semester. Below will be found a brief account of some of the work offered in the various departments.

**Academic Department.** In this department courses are offered in Anatomy, Astronomy, Botany, Chemistry, Classical Archaeology and History of Art, Economics, Education, Elocution, English, Freehand Drawing, Geology and Mineralogy, Germanic Languages, Greek, History, Latin, Mathematics, Philosophy, Experimental Psychology, Physical Training, Physics, Physiology, Political Science and Public Law, Romance Languages, Sociology, and Zoology. In nearly all of these there are subjects that begin with the second semester. In addition many of the continuous courses are so arranged that students may take up the work of the second semester without any serious handicap. This is especially true of the work in Astronomy, Botany, Chemistry, History of Art, Economics, Education, English, Geology, History, Philosophy, Psychology, Political Science and Public Law. All courses are elective. For the A. B. degree the student must complete enough work to entitle him to a credit of one hundred and twenty (120) hours.

**Missouri Teachers College.** In the Teachers College practically all of the courses are arranged so that students begin work about as well in the second semester as in the first. This is true especially of the professional work proper where only the graduate courses extend throughout the year. The following professional courses begin at the opening of the

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1905



second semester: History of Education, Educational Psychology, Methods in Elementary Schools, Principles of Education, High School Problems, School Supervision. The following courses that are not strictly professional but important for teachers are offered by the Teachers College in the second semester: History of Rome, Nature Study, Evolution of Cultivated Plants, Physical Geography, Meteorology, Manual Training, and Teachers Courses in English, History, Latin, Mathematics and Science.

Besides, it is often possible for the teacher of experience to begin with a class of less mature students who have been at work for a half year, and carry the work successfully to the end of the year. In this way students entering in the middle of the year may find work in Freehand Drawing, Manual Training, Music, and many academic studies.

**Medical Department.** The regular course offered by the Medical department requires four years for its completion. The first two years are spent in laboratory work in the fundamental sciences upon which the clinical work is based. These sciences include Physics, Chemistry, Zoology, Anatomy, Histology, Physiology, Pharmacology, Bacteriology and Pathology. These branches are in charge of specialists who give their entire time to teaching and research. The Medical laboratories occupy four buildings including the new Medical laboratory building recently completed at a cost of \$40,000. Nearly all of the work of the Medical department is required work and is laid out to be followed continuously from the beginning of the session; but students who have had Anatomy, Physics, or Chemistry of the freshmen year may enter upon at least part of the work at the beginning of the second semester.

**School of Mines and Metallurgy, Rolla, Missouri.** The Missouri School of Mines and Metallurgy provides instruction in four regular courses leading to degrees, and in several special courses. The regular courses extending through four years are as follows: Mining Engineering, Civil Engineering, Chemistry and Metallurgy, General Science. In addition to these courses, a number of shorter courses are offered in Chemistry, Assaying, Surveying, and Electricity. For particulars in regard to these courses, address the Director.

**Law Department.** The Law Department opens its second semester with the other departments of the University, on January 30th, 1906. In the first year class, Torts, Bailments and Carriers, Agency, and Personal Property are begun. In the junior class, Private Corporations, Equity, and Real Property, begun in the first semester, are continued, and In-

surance, Code Procedure, and Sales are taken up for the first time. In the senior class, Evidence and the Practice Court work, begun in the first semester, are continued, and Public International Law, Extraordinary Legal Remedies, Partnership, and Municipal Corporations are taken up for the first time.

Students who have read law under some practicing attorney or have in other ways acquainted themselves with the subjects taught in the first semester of the first year class may enter the first year class at the beginning of the second semester.

For the purpose of the State Board examination and for the benefit of the members of the senior class who intend to take that examination in June, the faculty proposes to give this class a review of all subjects of the first and second years upon which they will be examined by the State Board of Law Examiners.

Students entering the School of Agriculture at the beginning of the second semester will have the opportunity to select the following subjects in the course:

**College of Agriculture and Mechanic Arts.**

Field Crops.—The history, culture, care, harvesting and storage of the common farm crops.

Agricultural Engineering.—The selection and laying out of farms, the construction of farm buildings, the selection, care and management of farm implements.

Livestock Judging.—This course is a continuation of the work given in the first semester of the freshman year.

Beef, Pork and Mutton Production.—A study of the practical methods in the management of meat-producing animals.

Elements of Dairying.—Lectures and practical exercises on the manufacture of butter, handling of milk, testing for butterfat, and like subjects.

Dairy Farming.—This course includes the selection, breeding, building up of dairy herds, and the management of dairy farms.

Small Fruits and Vegetable Gardening.—This course covers the entire range of small fruit and vegetable production both under glass and in the open field.

Landscape Gardening.—This instruction includes the principles of ornamentation of public and private grounds.

Shopwork, including both wood work and forging.

In addition to these required courses, the student will have the opportunity to select such subjects offered to the students in the Short Winter Courses in Plant Production, Animal Husbandry and Dairying, as may be best suited to their requirements.

**The School of Engineering.** The School of Engineering aims to give the student a broad technical education with special reference to the requirements of the several fields of engineering practice. Five courses of instruction are offered: (1) Civil Engineering, (2) Electrical Engineering, (3) Mechanical Engineering, (4) Chemical Engineering, (5) Sanitary Engineering. The work required in these courses is laid out to be followed continuously from the beginning of the session, but students who have already had the mathematics (Trigonometry) and drawing (Mechanical Drawing) required in the first semester of the Freshman year may without difficulty enter upon the work at the beginning of the second semester. Shopwork is also desirable but not absolutely necessary.

**The Missouri State Military School.** Instruction in Military Science and Tactics is given by a regular army officer detailed by the Federal Government. Students may enter this department at the beginning of the second semester. Credit is given in the Academic Department for work in Military Science and Tactics on the scale of one hour's credit for three hours' work, the total credit not to exceed four hours.

**Tuition Free.** Tuition is free in all departments. All students are required to pay a small fee for the use of the library, five dollars in all departments, except Law and Medicine, in which the charge is ten dollars. Where a student takes a course requiring laboratory work he must make a small deposit covering the cost of materials used.

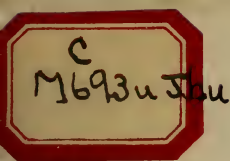
**Expenses.** Tuition and fees in some universities are greater than the entire expenses at the University of Missouri. Students who board in the dormitories spend from \$150 to \$200 a year; those in private families from \$225 to \$300. This includes expenditures for board, room, laundry, books, library fee and charges for laboratory material used.

**Summer Session.** The Summer Session will open June 8 and continue eight weeks. A large number of courses will be offered by the Academic Department and by the Teachers College. A special bulletin giving detailed information will be sent on request.

Dec. 15, 1905.

J. C. JONES,  
Acting President.





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UNIVERSITY OF MISSOURI  
JAN 11 1906

# BULLETIN OF THE UNIVERSITY OF MISSOURI

VOL. VII.

JANUARY, 1906.

NO. 1

## PURPOSE OF THE SUMMER SESSION.

The aim of the Summer Session is to place the valuable equipment of the University at the service of persons who cannot attend during the regular sessions. It is primarily for the teachers of the state, but others are admitted who are qualified to pursue the subjects taught. Superintendents, principals, high school teachers, elementary and rural school teachers, and regular students of the University can all find courses adapted to their needs.

## LENGTH OF SUMMER SESSION.

The session opens on June 9 and closes on August 10. It continues approximately two months, and represents in time one-half of one semester.

## TERMS OF ADMISSION.

There will be no formal examinations for admission. Students will be admitted to such courses as they are prepared for. Those students who desire credit toward a University degree must meet the entrance requirements or enter under the rules as special students.

## CREDIT FOR COURSES IN SUMMER SESSION.

All courses offered are given credit toward the degree of Bachelor of Science from the Teachers College; most of them also count toward the degree of Bachelor of Arts.

## ACCEPTANCE OF GRADES BY STATE AND COUNTY SUPERINTENDENTS.

A law enacted by the Forty-first General Assembly provides for the acceptance of grades made in the Summer Session, as follows:

"Grades made in the summer terms of the state educational institutions and in such other summer schools as may be approved by the State Board of Education shall be accepted by the State Superintendent and County Boards in lieu of examination in the subjects or parts of subjects outlined by the State Board." (Section 9666.)

## LABORATORY AND LIBRARY FACILITIES.

The University of Missouri has over thirty well equipped laboratories for practical instruction in the sciences.

The libraries contain about 70,000 bound volumes and several thousand pamphlets. In addition, the library of the State Historical Society, located in Academic Hall, contains about 25,000 volumes.

## PRACTICE AND MODEL SCHOOLS.

The schools of the Teachers College are open for observation and practice to teachers who attend the Summer Session.

The Practice School offers instruction in high school subjects, as stated below, and affords an opportunity to observe high school teaching, to take part in it under the guidance of the Supervisor, or to review high school subjects.

The Model School covers the work of the primary grades. The teaching is done by an expert primary teacher, and students of the Summer Session are encouraged to visit the school as frequently as possible. Superintendents and primary teachers alike profit by their observation of this work.

## LECTURES AND CONCERTS.

At 10 A. M. each day of the session, students and teachers assemble for a period of thirty minutes. On certain days religious exercises are held and on other days lectures are delivered on educational and other topics of general interest. Excellent music is provided at the daily assemblies, and occasional musical concerts are given.

At the close of the Summer Session for 1906 a Chautauqua will be held in Columbia for ten days, which will afford an opportunity to hear many prominent lectures and much good music.

## EXPENSES.

The fee for admission is \$5.00 for the entire session. Each student who takes laboratory work is required to make a deposit of \$5.00 with the Secretary of the University to cover laboratory fee of \$2.50, and damages to or loss of University property.

Board and room cost from \$3.50 to \$5.00 per week, but, by organizing themselves into a club, students often reduce the expense of living considerably.

## RAILROAD RATES.

The railroads of the state grant a rate of one and a third fare to students of the Summer Session, on the certificate plan.

## FACULTY AND COURSES OF INSTRUCTION.

Thirty-five of the best teachers of the University offer sixty-five courses as follows:

*Agriculture*: Soils and Plant studies; Principles of Animal Breeding.

*Botany*: General Botany; The Ecology and Distribution of Plants.

*Chemistry*: General Inorganic Chemistry; Quantitative or Qualitative Analysis.

*Civil Government*: Civil Government in the United States.

*Economics*: Introduction to Economics; Economic History.

*Education*: History of Education; Grade and Rural Teaching; Primary and Kindergarten Teaching; School Supervision; Missouri School System; Principles of Education; High School Problems.

*Elocution*: Elements of Vocal Culture and Expression; Interpretative Work.

Mc43aJ 64  
*English*: Composition and Rhetoric; History of the English Language; History of English and American Literature; Shakespeare; Victorian Poets; American Literature.

*Freehand Drawing*: Representation; Design; Teaching of Art.

*French*: Elementary French; Advanced French.

*German*: Beginners' Course in German; German Reading; Conversation and Composition; The Naturalistic Drama (Hauptmann and others); Essentials of Phonetics and Historical Grammar.

*History*: Mediaeval and Modern History; English History and Government; American History and Government; History of Missouri; Economic History (see also Economics).

*Horticulture*: Cultivated Plants; Evolution of Cultivated Plants.

*Latin*: Vergil; Latin Composition; Roman Public and Private Life.

*Manual Training*: Manual Training for Elementary School Teachers; Manual Training for High School Teachers.

*Mathematics*: Trigonometry; Analytic Geometry; College Algebra; Differential Calculus; Integral Calculus.

*Music*: Public School Music; Harmony, Voice Culture and Interpretation.

*Nature Study*: Nature Study for Elementary School Teachers.

*Philosophy*: Logic; Practical Ethics.

*Physical Geography*: Physical Geography; Physiography.

*Physics*: General Physics (Mechanics, Heat and Sound); General Physics (Light, Magnetism, and Electricity); Engineering Physics (Mechanics, Light and Sound); Advanced Physics.

*Physiology*: Elementary Physiology; Advanced Physiology.

*Psychology*: Introduction to Psychology.

*Zoology*: General Zoology; Vertebrate Embryology.

In addition to the above the following courses are offered in the Practice School, under the direction of University instructors:

*English*: English Grammar; English Composition; English Literature.

*Latin*: Beginners' Course in Latin; Caesar; Cicero.

*History*: Ancient History.

*Mathematics*: Beginning Algebra; Advanced Algebra; Plane Geometry; Solid Geometry.

*Science*: Elementary Physics.

For full particulars and descriptive catalogue of courses write

Albert Ross Hill,

Director of Summer Session,

University of Missouri,

Columbia, Missouri.

30<sup>th</sup> January, 1906.

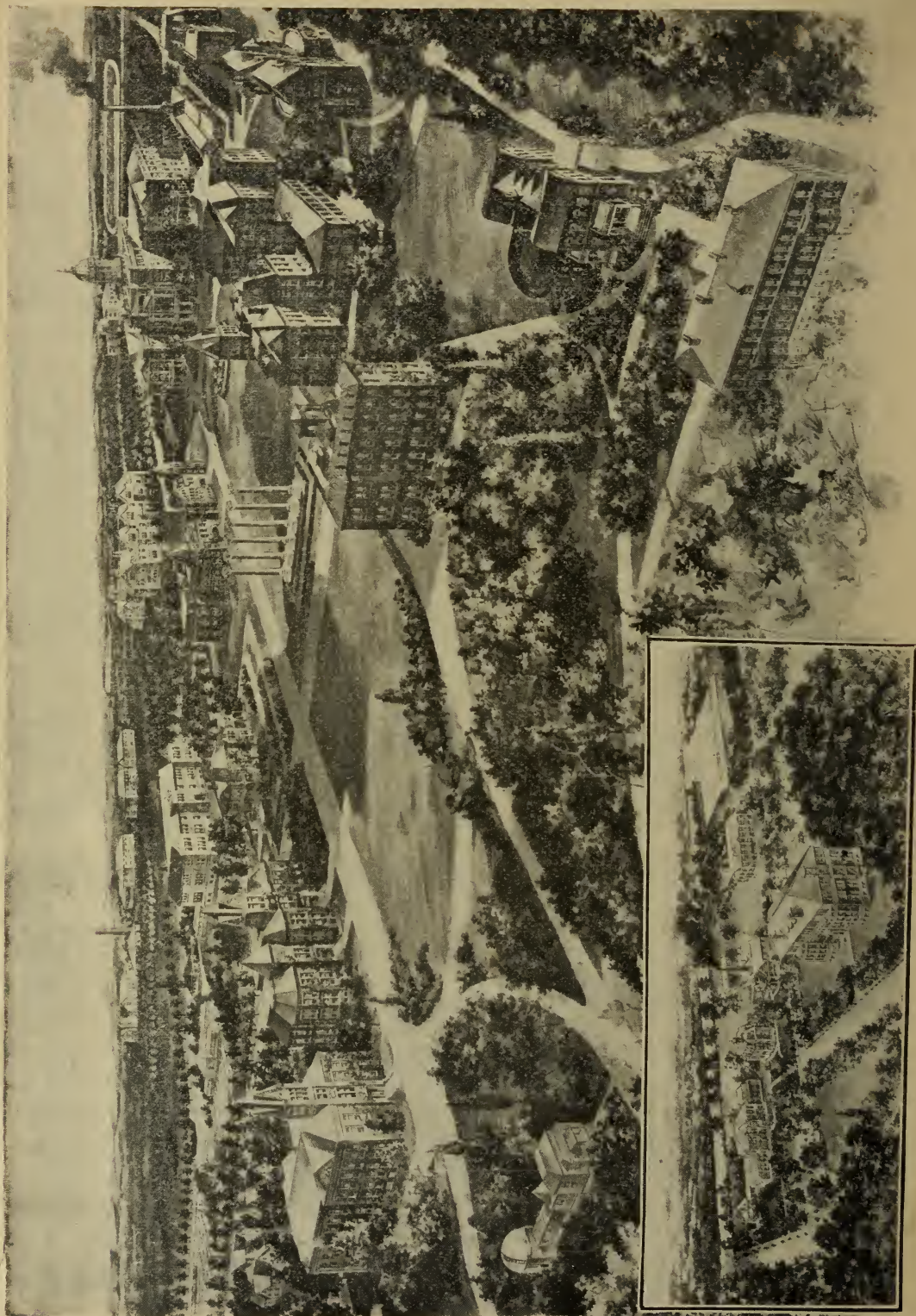
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On October 21, 1901, the enrollment of the University of Missouri first reached 1000; on the 29th of January, this year, the total enrollment was 2009. Forty-five States and eighteen foreign countries are represented by students.

The value of the University buildings, grounds, and other equipment is \$2,000,000; the annual income from \$400,000 to \$430,000.

Theodore Roosevelt, President of the United States, has promised to attend the commencement exercises of the University of Missouri in June, 1907, and receive the honorary degree of LL. D.





(School of Mines and Metallurgy) BIRD'S-EYE VIEW OF THE UNIVERSITY OF MISSOURI, COLUMBIA AND ROLLA

BULLETIN  
OF THE  
UNIVERSITY OF MISSOURI

VOL. VII.

JULY, 1906

NO. 7

GENERAL ANNOUNCEMENT.

**History.** The University of Missouri is the oldest state university west of the Mississippi river. Its legal existence dates from February 11, 1839, and its courses of instruction began April 14, 1841. Since that date it has been in continuous operation except for a few months during the Civil War.

**Location.** All Departments of the University (except the School of Mines, at Rolla) are located in Columbia, a beautiful city of 8,000 inhabitants, situated in the most picturesque part of Missouri, midway between St. Louis and Kansas City, and reached by the Wabash, and the Missouri, Kansas & Texas, railroads.

**Resources and Equipment.** The income of the whole University from all sources for the year 1905 was about \$510,000. There are thirty buildings, twenty-three occupied by the departments at Columbia and seven by the School of Mines, at Rolla. The buildings, grounds, books, and other equipment are valued at about \$2,000,000. In the libraries at Columbia, including the general and special libraries of the University and the collections of the State Historical Society, there are at present about 126,000 volumes and pamphlets. More than \$200,000 have been expended to improve the facilities for laboratory work in the last three years. There are Museums of Archaeology, Art, Zoology, Geology, and Agriculture, many laboratories of Science and Technology, rooms



for Drawing and Designing, and several Shops. At the School of Mines also there are several Laboratories, Drawing rooms, and Shops.

**Faculties.** The faculties contain 178 teachers and officers.

**Expenses:** Tuition is free in all departments. Students are required to pay for the use of the library, five dollars in all departments, except Law and Medicine, in which the charge is ten dollars. If a student takes a course requiring laboratory work, he must make a small deposit covering the cost of materials used. With economy, the total expenses of a student may be kept below \$200 for a session of nine months.

**Tuition Free.**

**Enrollment.** During the last session 2,072 students were enrolled. In addition to these, 89 were enrolled in the University Extension Centre at Kansas City, making a total of 2,161 students who received instruction. The number in attendance has been more than doubled since 21 October, 1901, when it first reached 1,000. Forty-five states and eighteen foreign countries were represented among our students last year.

**Religious Influences.** The Young Men's and the Young Women's Christian Association have each a zealous chapter in the University. Nearly four hundred students were engaged in Bible study last session under the leadership of these Associations. Almost all religious denominations are represented at Columbia by preachers and church edifices.

**Athletics.** A new \$70,000 gymnasium has just been constructed. Work in physical training and athletics is thoroughly organized. The students have teams for football, baseball, basket-ball, track athletics, and lawn tennis. There are excellent golf links, tracks, tennis courts, and several athletic fields.

**Debating.** Literary societies and debating clubs abound for training in writing, public speaking, and debating. Members of these organizations annually engage in debates with the representatives of other universities, and have won twelve of the twenty-two contests. The instruction in Elocution is admirable.



**Admission.**

The equivalent of the work done in a good high school that maintains a four years' course is required for admission as a regular student to any undergraduate department, excepting Medicine, in which more is demanded (See p. 6) ; but any mature person may be enrolled as a "special student" and permitted to elect such studies as he is prepared for. Special students, however, cannot receive any degree until they have satisfied fully the requirements for entrance.

**THE DEPARTMENTS.**

The University of Missouri includes eight departments or colleges. These, in the order of their establishment, are as follows:

- 1839. Academic Department, or College of Liberal Arts.
- 1867. Missouri Teachers' College, founded as a Normal Department.
- 1870. College of Agriculture and Mechanic Arts:
  - (a) 1870, College of Agriculture,
  - (b) 1877, School of Engineering,
  - (c) 1888, Agricultural Experiment Station.
- 1870. Missouri School of Mines (at Rolla).
- 1872. Department of Law.
- 1873. Department of Medicine.
- 1890. Missouri State Military School.
- 1896. Graduate Department.

**Academic  
Department.**

The Academic Department is a College of Liberal Arts in which instruction is offered in the following subjects: Anatomy and Histology, Astronomy, Botany, Chemistry, Classical Archaeology and the History of Art, Economics, Education, Elocution, English, Free-hand Drawing, Geology and Mineralogy, Germanic Languages, Greek, History, Latin, Mathematics, Philosophy, Experimental Psychology, Physical Training, Physics, Physiology, Political Science and Public Law, Romance Languages, Sociology, and Zoology. All the courses are elective; each student selects, within certain limitations, his own course.

The degree of Bachelor of Arts (A. B.) is the only undergraduate degree conferred by the Academic Department. In general it requires four years to complete the 120 hours required for this degree, although some students by doing work in the Summer Session considerably shorten the time.

**Missouri  
Teachers  
College.**

This Department is a college for the professional training of teachers. It offers a four years' course leading to the degree of Bachelor of Science (in Education), graduate courses leading to the degrees of Master of Arts and Doctor of Philosophy, as well as several special professional courses leading to various forms of teachers' certificates.

In the course leading to the Bachelor's degree, the work of the first two years is almost entirely academic and general in character, while in the last two years the work is about equally divided between the study of some special subjects which the student expects to teach and professional courses in History of Education, Theory and Practice of Teaching and the like, combined with practice teaching in the Training School. A professional course for one year is offered for the benefit of college graduates in the A. B. course who have not had opportunity to study educational problems or to secure practice in teaching under competent supervision. This course leads to a Life Certificate to teach in the public high schools of Missouri. A two years' course is also offered for the benefit of persons qualified to enter the Teachers College who wish to prepare themselves especially for teaching in elementary schools.

**College of  
Agriculture.**

In the College of Agriculture thirty men devote their entire time to investigation and instruction. The equipment is quite complete. In addition to the buildings for Chemistry, Botany, Zoology, Physics, and other general subjects, the following buildings are used exclusively for technical instruction in agriculture; Agricultural Hall, Horticultural Hall, Dairy Hall, a Cattle Barn, a Live Stock and Veterinary Building, a Dairy Barn, Cattle Feeding Shed, Sheep Barn, and Carpenter and Blacksmithing Shops. The laboratories, located for the most part in the buildings just mentioned, comprise the following: laboratory for Testing Soils and Farm Crops, Live Stock judging room, Plant Propagating room, Entomological laboratory, Creamery room, Cheese room, Dairy Bacteriology room, laboratory for testing Dairy Products, laboratory of Veterinary Science, and laboratory of Agricultural Chemistry.

The subjects of instruction are Agronomy, Agricultural Chemistry, Agricultural Engineering, Animal Husbandry, Botany, Chemistry, English, Entomology, Geology, Horticulture, Meteorology, Physics, and Zoology. Five courses are offered:







School of Mines and Metallurgy, Rolla

## BIRD'S-EYE VIEW OF THE COLUMBIA

Cattle Feeding Experiments

Live Stock Judging  
Power House

Dairy

Gymnasium  
Read Hall  
Horticulture





In locating buildings begin first row, right margin

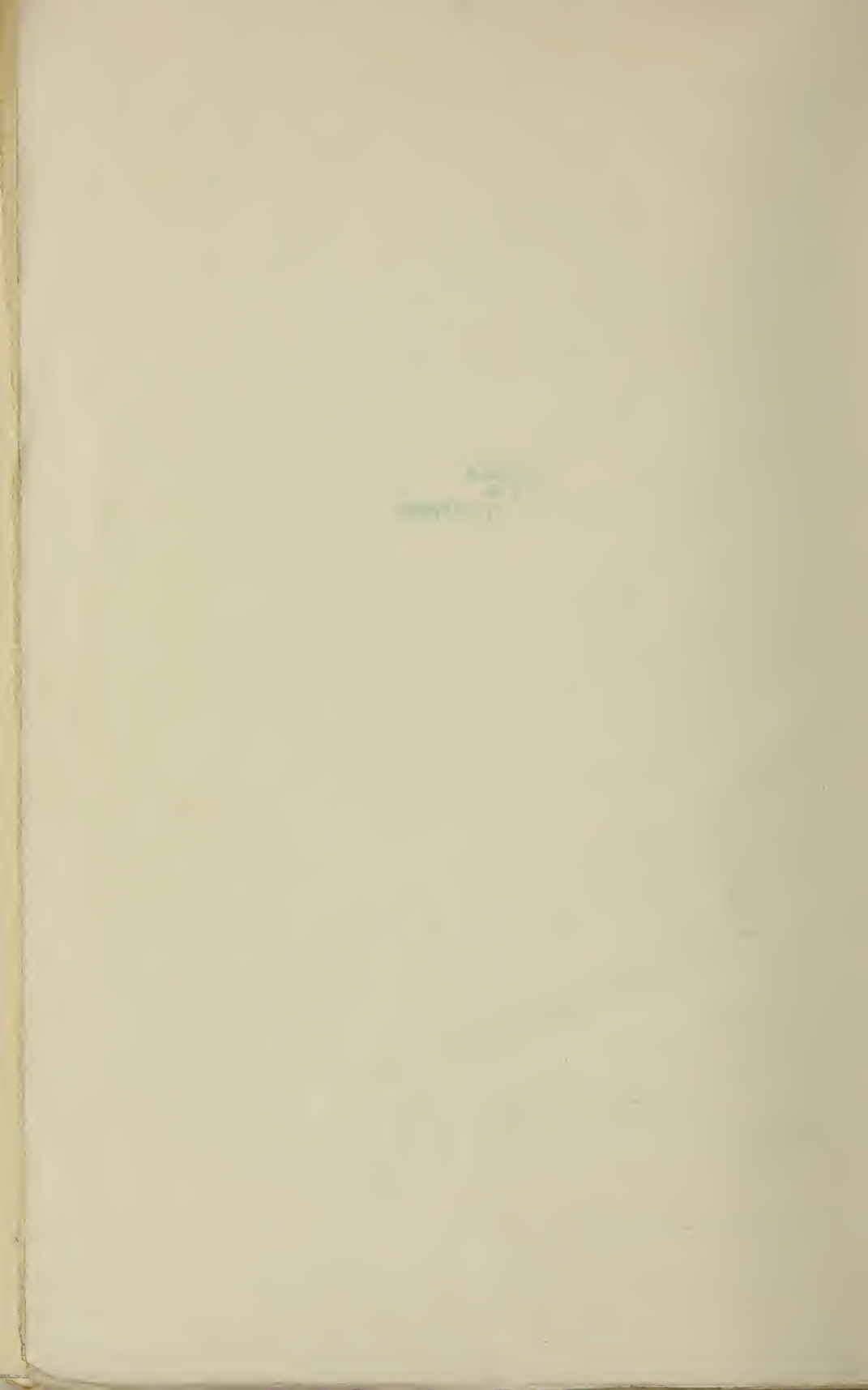
## UNIVERSITY OF MISSOURI

AND ROLLA  
eology  
resident's House  
chemistry  
aw

Rollins Field  
Academic Hall  
The Columns  
Observatory

Power House  
Mechanic Arts  
Engineering  
Agricultural Hall

Benton Hall  
Lathrop Hall  
Parker Memorial Hospital  
Medical Laboratory





1. A four-years college course in Agriculture;
2. An eight weeks winter course in Agriculture (beginning the first week in January each year);
3. An eight weeks winter course in Animal Husbandry (beginning the first week in January each year);
4. An eight weeks winter course in Dairying (beginning the first week in January each year);
5. Summer courses in Agriculture and Horticulture, primarily for teachers.

**Experiment Station.** The special function of the Experiment Station is to conduct original research in the various branches of Agriculture. At this time investigations are in progress relating to the maintenance of soil fertility, the renovation of worn out soil, the most efficacious rotation of crops, the adaptability of new plants to Missouri's soil and climate, the most economical methods of beef and pork production, dairying and dairy feeding, animal diseases—their origin and prevention or cure—animal and plant breeding, the propagation, selection, breeding, and improvement of fruits and vegetables, tests of varieties of orchard and small fruits, insect pests, and fungous diseases.

**The School of Engineering.** At Columbia, the School of Engineering offers courses in Civil, Electrical, Mechanical, Chemical, and Sanitary Engineering. These courses are planned to give broad fundamental training, thorough instruction in studies common to Engineering courses, and special technical work in each of the respective branches.

The number of teachers has been materially increased, in answer to a great increase in enrollment.

Students have access to the General Library, besides which there is a good technical library and reading room in the Engineering building.

In addition to the laboratories of Physics and Chemistry, the Astronomical Observatory, the Shops, and Drawing Rooms, there are new and well equipped Engineering laboratories. For Civil Engineering there are numerous Surveying instruments and a Testing Laboratory for making standard tests upon materials. The Electrical Laboratories include instruments for electrical measurements of precision, numerous types and sizes of direct and alternating current

generators and motors, measuring instruments and accessories, apparatus for high voltage experiments, for standardization, etc. The Mechanical Laboratories contain steam, gas, and oil engines, pumps, injectors, air-compressors, fans, turbines, etc., together with apparatus for testing them and for standardizing instruments.

**Law Department.** Upon the reorganization of the law Department in 1903, and the extension of the course to three years, the system of original investigation, known as the "Case Method," was introduced. It has been found to be highly satisfactory. Under this method, instead of using an ordinary text-book as the basis of instruction, the student is sent directly to the original sources of the law and is taught by systematic study and comparison of the decided cases to deduce and formulate for himself the various rules involved, and to discover the underlying principle or conception upon which they are based, and in this way to determine their true scope and limitations. In addition to the instructional value of such investigation, the student has the advantage of constant practice in applying methods of legal reasoning to the solution of the same concrete problems with which he will have to deal as a practicing attorney.

The course of instruction leading to the degree of Bachelor of Laws covers three years of nine months each.

**Medical Department.** The regular course offered by the Medical Department requires four years for its completion. The first two years are spent in laboratory work in the fundamental sciences upon which the clinical work is based. These sciences include Physics, Chemistry, Zoology, Anatomy, Histology, Physiology, Physiological Chemistry, Pharmacology, Bacteriology, and Pathology. In the third year the student is introduced into clinical work by means of lectures, clinics, and work in the clinical laboratories of Medicine and Surgery. In the fourth year the entire time of the student is given to clinical lectures and demonstrations, ward visits, and dispensary work. The Medical Laboratories are lodged in four buildings including the new Medical Laboratory, recently completed at a cost of \$40,000. The Parker Memorial Hospital and Busch Clinical Amphitheatre are very near to the Medical Building. This Hospital is owned and controlled by the University for teaching purposes. It has a capacity of 42 beds. The

wards are open at all times for bedside instruction of the third and fourth year students, who, for this purpose are divided into small groups of from one to four persons.

For admission to the Medical Department, in addition to the usual approved High School course, one year's college work is required. By taking an additional year's work in the Academic Department, the student may complete the combined course, securing the A. B. degree at the end of the fourth, and the M. D., at the end of the sixth, year.

**Missouri  
State Military  
School.**

Instruction in Military Tactics is given by a regular army officer detailed by the Federal Government. The cadets are appointed by the Senators and Representatives of the General Assembly of Missouri. All appointments are for a term of two years. Cadets are matriculated in the Academic Department and in the College of Agriculture and Mechanic Arts, free from tuition and other fees. Moreover, each of them is furnished with a good substantial uniform.

**Graduate  
Department.**

Graduate instruction is offered in the Academic Department, Teachers College, School of Agriculture, and School of Engineering. The graduate work of the Academic Department is under the direction and control of the Graduate Conference of that Department. The graduate work of the other Departments is under the direction of their respective Faculties.

Since the organization of the Graduate Department in 1896, this University has been devoting particular attention to the development of its graduate work. The enlargement of the Faculty and the extensive additions which have been made to the libraries and laboratories have made it possible to offer a wide range of research and other graduate courses.

The courses of study open to graduate students and other information may be found in the "Announcement of the Graduate Department."

For this "Announcement" and for further information respecting the graduate work of the Academic Department address the Chairman of the Graduate Conference; for other departments address the respective Deans.



School of  
Mines and  
Metallurgy,  
Rolla, Missouri.

The Missouri School of Mines and Metallurgy provides instruction in four regular courses leading to degrees, and in several special courses. The regular courses, each extending through four years, are as follows:

Mining Engineering,  
Civil Engineering,  
Chemistry and Metallurgy,  
General Science.

The first is a general course in Mining Engineering, having in view all the operations in mining from the prospecting for the ore to the delivery of the finished product on the market. The second is a course in Engineering as applied especially to railways, highways, and municipal work. The third contemplates especially processes in Mining and Metallurgy, subsequent to the delivery of the ore above ground. It fits a man for positions in concentrating plants and smelters and various branches of Industrial Chemistry. Certain options are offered according as the candidate may wish to specialize in the direction of Metallurgy or of Analytical Chemistry. The fourth course is largely elective and provides for a liberal education in general Science.

In addition to the four regular courses leading to degrees as described above, a number of shorter courses also are offered. They are: Chemistry and Assaying, Mining, Surveying, and Electricity. They have been planned for the benefit of those who for various legitimate reasons are unable to take the regular four-years courses.

For further information address "Director, School of Mines, Rolla, Missouri."

**Conclusion.** Entrance examinations at Columbia are held 10, 11, 12 September, and all departments open 11 September. At Rolla entrance examinations are held 15 and 17 September and instruction begins 18 September. A catalogue of the entire University, or special bulletins of the various departments, may be had by addressing Merrill Otis, University Publisher, Columbia, Missouri. For particulars concerning any department, address the Dean of that Department. All communications concerning credits for entrance should be sent to the Committee on Entrance, Columbia, Missouri.